

#### Quarterly Monitoring Report 3rd Quarter 2011

Dayco Corporation/L.E. Carpenter Superfund Site, Borough of Wharton, Morris County, New Jersey USEPA ID No. NJD002168748

October 28, 2011



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TRC Environmental Corporation | L.E. Carpenter & Company Quarterly Monitoring Report 3rd Quarter 2011

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# Section 1 Introduction and Summary

TRC Environmental Corporation (TRC), on behalf of L.E. Carpenter & Company (LEC), has prepared this Quarterly Monitoring Report for the Dayco Corporation/L.E. Carpenter Superfund Site (Site) located at 170 North Main Street, Borough of Wharton, Morris County, New Jersey (Figure 1). Quarterly groundwater and surface water monitoring events are performed and associated reports are completed and submitted to the United States Environmental Protection Agency (USEPA), to comply with paragraph 49 of the 2009 Unilateral Administrative Order (UAO) issued to LEC by the USEPA (effective August 6, 2009).

The following tasks were completed during the third quarter of 2011 (3Q11):

- Quarterly groundwater quality monitoring of both the MW19/HS-1 and MW-30 areas of concern (AOCs),
- Quarterly Monitored Natural Attenuation (MNA) groundwater monitoring of the MW-30 AOC,
- Hydrogeologic and hydrologic assessments of shallow site groundwater and adjacent surface water bodies, and
- Surface water quality assessments of the Rockaway River and Eastern Drainage Channel.

This Quarterly Monitoring Report for 3Q11 presents a discussion of activities performed during the period and results obtained for each of the monitored AOCs. A summary of observations are as follows:

■ MW19/HS-1: Consistent with the Remedial Action Work Plan (RAWP) Addendum approved by USEPA on December 21, 2009, implementation of the MW19/HS-1 area remediation began on January 11, 2010 and was completed in mid-April 2010.

Documentation of the event was included in the Addendum to the Remedial Action Report (RAR Addendum (RMT 2010)), along with a proposed post remedial monitoring plan (PRMP) which included supplemental monitoring well installation, soil gas sampling, and groundwater quality analysis for the area. The PRMP has been implemented beginning with installation of new monitoring wells and soil gas sampling in November and December 2010. The RAR Addendum was conditionally approved on July 12, 2011. The data summarized in this 3Q11 report show that benzene, toluene, ethylbenzene, and xylenes (BTEX)-impacted groundwater remains, but still has not migrated off-site. Also, as described in Section 4, natural attenuation of constituents of concern (COCs) dissolved in groundwater via biodegradation remains strong following removal of source material.

As outlined in an e-mail dated July 12, 2011, USEPA has reviewed and conferred formal approval of the Addendum to the Remedial Action Report (RAR), Source Reduction, dated July 2010. USEPA approval was predicated on the following condition related to Subsection 12.2, Soil Gas Sampling:

While soil gas sampling results may provide valuable additional information with respect to plume delineation and the behavior of vapors in the groundwater, USEPA does not rely on these results to determine the need for vapor intrusion sampling in homes or buildings located near a site. It is USEPA's understanding, based upon discussions with RMT (now TRC), that you do not believe that vapor intrusion testing is warranted based on the non-detects in the 3 GW sampling locations proximate to the homes. USEPA believes that before a final determination on the need for vapor intrusion sampling can be made, additional sampling data should be collected (for a minimum of four additional quarters) to verify that these wells remain non-detect. USEPA's position on this issue should be clearly outlined in Subsection 12.2 of the subject document.

Based on the 3Q11 data obtained, continuation of groundwater quality and MNA monitoring in the MW19/HS-1 area is recommended. Consistent with the USEPA request received with RAR Addendum approval, the monitoring program includes sampling of three Ross Street monitoring well locations for a minimum of four additional quarters, beginning with the 3Q11 event, to confirm absence of detectable concentrations of volatile COCs. Ross Street well sampling includes analysis for site-related COCs [BTEX and bis (2-ethylhexyl) phthalate (DEHP)] and 1,3-butadiene, a non-site related COC detected at low concentrations in Ross Street soil gas samples. These compounds were not detected in any sample collected from of the three Ross Street monitoring well locations.

■ MW-30 AOC: Shallow groundwater flow in the MW-30 area is similar to flow that occurred prior to the 2005 source reduction. Specifically, shallow groundwater at the Site is recharged by Washington Forge Pond, as well as the first 600 feet of the Rockaway River below the dam. The effect of the buried slurry monolith on groundwater flow appears to be limited in extent and occurs mainly within and near the edges of the source reduction area. Concentrations of constituents detected within the MW-30 PRMP monitoring network exhibited similar concentrations to previous monitoring periods.

A scope of work to further evaluate the source of groundwater contamination above solubility limits in the wetland area and a bench scale study to evaluate polishing-remediation of dissolved DEHP remaining in the slurry monolith area was presented in TRC's July 8, 2011 Revised Addendum to the USEPA approved RAWP. LEC anticipates initiating the remedial investigation and dissolved phase remedial pilot work in the MW-30 area shortly after USEPA approval of the complete RAWP Revised Addendum #1 (see Section 7.1 for additional details).

■ Surface Water: COCs were not detectable in any of the Rockaway River samples. Surface water sample SW-D-1, SW-D-2, SW-D-3 and SW-D-4 collected from the Eastern Drainage

Channel exhibited DEHP at concentrations slightly above background. BTEX constituents were not detected at any surface water monitoring locations in the Eastern Drainage Channel.

# Section 2 Sampling Approach and Methods

The 3Q11 monitoring activities were conducted from August 15 through August 19, 2011. A site plan showing current conditions and locations of the monitoring points sampled during the 3Q11 sampling activities are shown on Figure 2. A photographic summary of the sampling events and a copy of the field notes are provided in Appendix A.

#### 2.1 Water Level Measurements

Static groundwater levels were measured within 35 groundwater monitoring wells throughout the Site on August 15-16, 2011 as part of the 3Q11 sampling activities. In addition, surface water levels were measured at eight separate locations along the Rockaway River and five locations along the Eastern Drainage Channel.

#### 2.2 Site-wide Groundwater Sampling

Groundwater monitoring was performed in accordance with the procedures contained in the New Jersey Department of Environmental Protection's (NJDEP's) *Field Sampling Procedures Manual* dated May 1992 (Revised August 2005), and methodologies outlined in the May 2001 MNA work plan. The MNA work plan was approved by NJDEP on January 24, 2002.

Three sample duplicates, three trip blanks, a field (atmosphere) blank, one matrix spike/matrix spike duplicates (MS/MSDs), and three rinsate blanks were collected to satisfy quality assurance /quality control (QA/QC) requirements outlined in the revised Quality Assurance Project Plan (QAPP) presented as Appendix C in the PRMP.

The trip blanks were prepared by the laboratory and remained with the sample containers until the samples were returned to the laboratory where they were analyzed for BTEX. The blind duplicate samples were collected at SW-D-4 (Dup-03), MW-30s (Dup-01), and MW-19-5R (Dup-02) and analyzed for BTEX and DEHP. Dup-01 and Dup-02 were also analyzed for MNA parameters. Rinsate blank RB-02 was collected by circulating distilled water through the cleaned bladder pump assemblies to verify that decontamination procedures were adequate. Rinsate Blank RB-03 was collected by pumping distilled water through an unused 10-foot long section of <sup>3/8</sup>"-diameter polyethylene tubing stored at the Site. Any sampling equipment used at each well was decontaminated prior to each use utilizing an environmental detergent (Alconox®) and clean water wash followed by a distilled water rinse. The field (atmosphere) blank was taken by opening a bottle of unpreserved distilled water, leaving the bottle open during the sampling of one well, and pouring that water directly into clean sample bottles with

added preservative also provided by the laboratory. Groundwater samples were submitted to Trace Analytical Laboratories, Inc. (Trace), located in Muskegon, Michigan for BTEX, DEHP, and MNA parameter analyses (State of New Jersey Laboratory Certification No. MI008).

#### 2.3 Surface Water Sampling

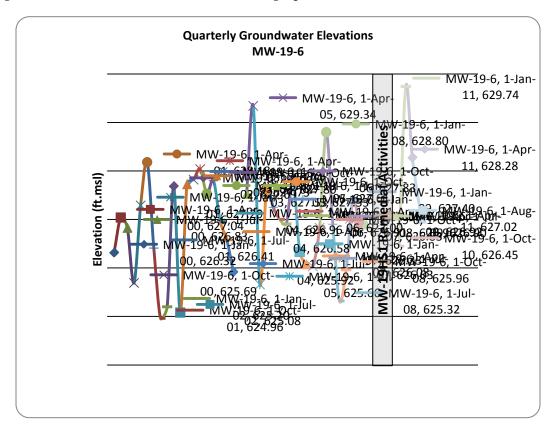
As part of the 3Q11 event, five sampling points (SW-D-1, SW-D-2, SW-D-3, SW-D-4, and SW-D-5) within the Eastern Drainage Channel that separates the adjacent Air Products property from the LEC Site and the adjacent Wharton Enterprises property were sampled for surface water quality. This sampling was conducted at the request of NJDEP as outlined in their letter dated March 23, 2005. Surface water samples were also collected at the intersection of the Eastern Drainage Channel and the Rockaway River (approximately 10 feet upstream in the Eastern Drainage Channel, DRC-02) and at five surface water samples from the Rockaway River (SW-R-1, SW-R-2, SW-R-3, SW-R-4, SW-R-6) as shown on Figure 2.

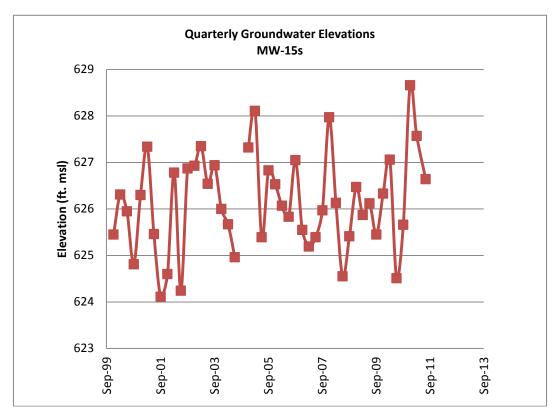
Specifics regarding surface water sampling locations, frequency and analytes are presented in the PRMP and associated QAPP. Surface water samples were submitted to Trace for analysis of BTEX and DEHP.

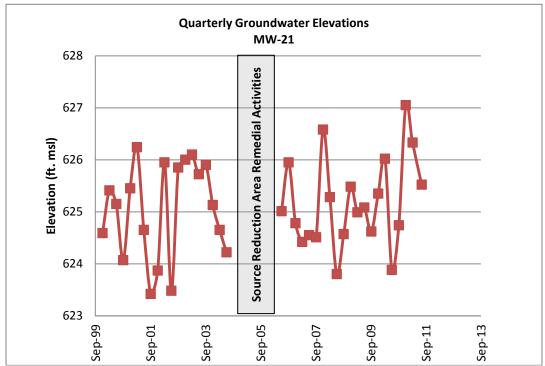
# Section 3 Groundwater Elevation and Shallow Groundwater Flow

Static groundwater levels were measured within 35 groundwater monitoring wells throughout the Site on August 15-16, 2011 as part of the 3Q11 sampling activities. In addition, surface water levels were measured at eight separate locations along the Rockaway River and five locations along the Eastern Drainage Channel. These data were used to calculate groundwater elevations (Table 1) with respect to the National Geodetic Vertical Datum (NGVD), and evaluate the sitewide groundwater flow pattern in the shallow aquifer system. Interpretation of the calculated groundwater elevations yielded site-wide shallow groundwater contours and associated approximate flow pattern that are shown on Figure 3. The contours were prepared by utilizing the surveyed groundwater elevations from the PRMP wells, existing Site wells, and river and Eastern Drainage Channel surface water elevations (Table 1).

Groundwater levels measured at the site have returned to more average levels than measured during 1Q11 and 2Q11 events as shown on the graphs below.







#### 3.1 MW-30 Area of Concern

Shallow groundwater flow is similar to flow present at the Site prior to the source reduction conducted in 2002 in that shallow groundwater at the Site is recharged by Washington Forge Pond, as well as the first 600 feet of the Rockaway River below the dam. This "losing" reach of river is identified by approximate flow direction arrows on Figure 3. Further east towards the wetland shallow groundwater again becomes influent to the river. The groundwater contour map also shows that the effect of the buried slurry monolith on groundwater flow is limited in extent, mainly within and along the edges of the Source Reduction area. The presence of the monolith does not change the overall easterly flow direction in the MW-30 area.

Surface water elevation data for the man-made Eastern Drainage Channel is consistent with its current configuration as a U-shaped pond formed as a result of downstream beaver dams (Figures 2 and 3). As shown by the flow arrows on Figure 3, the bulk of the shallow groundwater on-site becomes influent to the Eastern Drainage Channel surface water; this flowpath is supported by the occasional low detections of Site COCs in some of the Eastern Drainage Channel surface water samples (see Section 5).

Further into the wetland area to the east, in the vicinity of monitoring location MW-21, groundwater is typically mounded slightly and flows north into the ditch system, south to the river, and west back towards the Source Reduction area. This condition has remained relatively consistent over the period of remedial investigations conducted on the Site. A lack of detectable constituents within monitoring wells MW-21, MW-25(R), and former wells MW-14S and MW-14I support the flow path from the eastern wetland towards the western wetland. In addition, the construction of the regional sewer line (Figure 2) did not encounter contamination until construction had progressed from east to west to the westernmost end shown on Figure 3. These data demonstrate adequate delineation of groundwater contamination, and indicate that contaminant migration is not occurring further east than the delineated area shown on Figures 6 and 7.

#### 3.2 MW19/HS-1 Area of Concern

As historically observed, shallow groundwater in the MW19/HS-1 area is generally toward the northeast (Figures 3 and 4). Groundwater on both the north and south sides of Ross Street is locally influenced by the utility corridor located in the center of Ross Street where the large regional storm sewer line is located.

# Section 4 MW-19/Hot Spot 1 Area

A comprehensive investigative and remedial history of the MW19/HS-1 AOC is presented in the 4th Quarter 2007 Remedial Action Progress Report (RAPR). As outlined in the RAPR, the MW19/HS-1 AOC has been under investigation since the early 1980s. Activities began with subsurface investigation and subsequent removal of two underground storage tanks (USTs) that provided bulk liquid waste storage for former operations in Building 9. Long-term monitoring and investigation of groundwater quality within the area, as well a soil gas investigation performed in 2006, showed that naturally occurring biodegradation was occurring, resulting in a stable dissolved phase "plume" that was shrinking over time, and did not pose a risk to the residences on the north side of Ross Street.

In the June 20, 2007, Notice of Deficiency (NOD) pertaining to review of the May 2006 Soil Gas Investigation Report, NJDEP stated that the extended time frame for degradation of dissolved phase groundwater contamination post source removal [USTs and surrounding soils] suggested that residual source material remained and must be addressed. To support preparation of a Remedial Action Selection Report (RASR), RMT performed an investigation of potential residual source material in August 2007. Results of this investigation and a proposed remedial approach were presented in the RASR submitted to NJDEP and USEPA in September 2007.

LEC, USEPA, and RMT developed a Statement of Work (SOW) for concurrent implementation of the MW19/HS-1 area investigation and remediation, focusing the remedial alternative for this area on soil excavation. This approach was detailed in the September 3, 2009 Addendum to the USEPA approved RAWP. The Addendum to the RAWP was approved by USEPA on December 30, 2009. Implementation of the MW19/HS-1 area investigation and remediation began on January 11, 2010 and was substantially complete by April 23, 2010. Documentation of the remedial action was included in the RAR Addendum. The outline of the excavation area associated with that remediation is shown on Figure 2.

#### 4.1 MW19/HS-1 Post-remedial Performance Monitoring

A post-remedial groundwater monitoring well network was proposed to USEPA for approval in the RAR Addendum. USEPA approval of the proposed network was received in their September 28, 2010 email requesting current MW19/HS-1 groundwater analytical data. Four replacement monitoring wells and five new groundwater monitoring wells were installed in November 2010, in accordance with the RAR Addendum.

The groundwater elevations and analytical data from these new wells, combined with the data from the two remaining wells, were utilized to create the MW19/HS-1 shallow groundwater contours and evaluate flow direction and post remedial groundwater quality (Figures 4 and 5).

#### 4.2 Groundwater Quality Impacts

#### Site Contaminants of Concern 4.2.1

Groundwater samples were collected from the existing groundwater monitoring wells from August 16-17, 2011. Results of laboratory testing are summarized on Table 2, and Figure 5 shows isoconcentration contours for total BTEX. Corresponding analytical laboratory reports are presented in Appendix B.

As shown on Figures 4 and 5, the current well network is adequate to sufficiently define the current extent of residual groundwater contamination that remains following the aggressive soil removal operation completed in early 2010. The lateral extent of BTEX detected in groundwater is similar to the extent reflected in the 2Q11 and 4Q10 monitoring reports. As noted in the 1Q11 report, there was a downgradient shift in BTEX distribution likely attributable to the high water levels encountered during the 1Q11 event. During the 3Q11 monitoring event, BTEX concentrations in MW-19-7R have decreased back to non-detectable concentrations. Conversely, concentrations of the BTEX compounds increased slightly in monitoring well MW-19R from non-detect for all compounds in 1Q11 to detections of 0.043 ppm ethylbenzene, 0.083 ppm toluene, and 0.2 ppm total xylenes in 2Q11 and detections of 0.230 ppm ethylbenzene, 0.230 ppm toluene, and 0.120 ppm xylenes in 3Q11.

Changes in BTEX distribution can be attributed to the fluctuations in groundwater elevations observed at the site during the 4Q10, 1Q11, 2Q11, and 3Q11 monitoring events. For example, the water level within MW-19R (Table 1) at an elevation of 626.72 feet mean sea level (msl) during the 3Q11 event was measured at 628.47 feet msl during the 2Q11 event, 630.22 feet msl during the 1Q11 event and at an elevation of 626.51 feet msl during the 4Q10 monitoring event. Concentration in monitoring well MW-19-12 located further downgradient remain at non-detect, which shows that significant downgradient expansion of the groundwater contaminant plume is not occurring.

As discussed in prior quarterly groundwater monitoring reports, the lack of downward migration of COCs is evidenced by historical groundwater elevation data that shows consistent upward vertical hydraulic gradients in the MW19/HS-1 area and in all other former and existing deep/shallow well clusters across the Site. Site-wide upward hydraulic gradients would be expected because of the regional hydrogeologic features;

specifically the upward gradient is a function of the regional groundwater discharge to the Rockaway River system. The Washington Forge Pond (at an elevation of approximately 640 feet) and the Rockaway River act as constant head boundaries, and together comprise a regional aquifer discharge area.

Consistent with the USEPA request received with RAR Addendum approval, the MW19/HS-1 monitoring program included sampling of three Ross Street monitoring well locations (MW-19-8, MW-19-12, MW-19-17) for a minimum of four additional quarters, beginning with the 3Q11 event, to confirm absence of detectable concentrations of volatile COCs in groundwater. Ross Street well sampling included analysis for site-related COCs (BTEX and DEHP) and 1,3-butadiene, a non-site related COC previously detected at low concentrations in Ross Street soil gas samples. Site-related COCs and 1,3-butadiene were not detected in any sample collected from of the three Ross Street monitoring well locations.

#### 4.2.2 Monitored Natural Attenuation Parameters and Data Analysis

Natural attenuation of petroleum hydrocarbons via biodegradation has been documented to be a universal phenomenon that occurs at 100 percent of sites with BTEX hydrocarbon contamination, and is found to be protective at more than 80 percent of those sites (Wiedemeier, 1997). As discussed in prior quarterly groundwater monitoring reports, natural attenuation of BTEX components related to the residual soil contamination in the MW19/HS-1 AOC had been observed.

A new groundwater monitoring well network and monitoring program was proposed in the RAR Addendum. USEPA approval of the network was received in their September 28, 2010 email requesting current MW19/HS-1 groundwater analytical data. The new groundwater monitoring wells were installed in November 2010, in accordance with the RAR Addendum. Concentrations of detected MNA parameters are summarized on Tables 3 and 4. These parameters continue to show that biodegradation remains strong, both along the outer fringes of the plume and within the current area of residual groundwater contamination. However, due to elevated water levels and resulting changes in groundwater quality at various locations, some of the MNA indicators are still not as strong as those measured during the 4Q10 event. Regardless, the heterotrophic plate counts (HPC) of bacteria in wells present within the zone of highest groundwater contamination remain high compared to levels last measured in pre-excavation wells. Specifically, HPC remained relatively high within the upgradient portion of the plume (MW-19R from a pre-excavation level of 25 to a 3Q11 level of 180 cfu/ml), to the center of the plume (MW-19-5R from a pre-excavation level of 25 to a

3Q11 level of 2,100 cfu/ml). The overall high current level of HPC indicates that microbial populations continue to thrive with the removal of residual source soils. The presence of source material typically inhibits the growth of microbial communities; prior to source removal here, HTP was relatively low within the interior portion of the plume.

In addition, electron donor zones that develop in the subsurface as a function of naturally occurring biodegradation remain clearly developed in 3Q11 than they were before the source removal was conducted. The first zone developed during degradation of hydrocarbon plumes is the methanogenic zone. Current data at the site shows that methanogenesis is strongest in the current plume core (6,300 ug/L methane at MW-19-5R) and has been reduced somewhat at the plume fringes because of the reduction in parent source material (methane reduced from 280 ug/L in 4Q10 to 16 ug/L in MW-19R). Current data also indicates changes in methanogenesis at MW-19-7R due to the fluctuating water levels observed during 1Q11, 2Q11, and 3Q11; methane increased from 35 ug/L to 3,300 ug/L and decreased to 22 ug/L and 1.1 ug/L. Further downgradient at MW-19-12, methane production remains non-detectable. Progressive zones further out from the plume core continue to be shown more clearly than before source removal. For example, reduction of ferric iron as a result of biodegradation processes has resulted in stronger concentrations of ferrous iron in the current plume core. Specifically, ferrous iron that was at a pre-excavation level of 1 ppm is now at a 3Q11 level of >20 ppm in MW-19-5R; similarly ferrous iron changed from a preexcavation level of 5 ppm to a 3Q11 level of 10 ppm ferrous iron at MW-19-7R. Ferrous iron remains at background levels further downgradient in MW-19-12. Similar increases also occurred with respect to the sulfate reducing zone.

Because of the strong MNA documented above and in previous reports, TRC anticipates that remaining contaminants dissolved in groundwater will continue to attenuate, and at a faster rate than previously documented.

#### 4.3 Performance Monitoring Summary

The MW19/HS-1 groundwater observations are summarized as follows:

- Groundwater flow at the Site is east-northeast and does not flow from the Site to the homes along the north side of Ross Street.
- Similar to conditions in 1Q11 and 2Q11, groundwater levels within the MW19/HS-1 area were still elevated (between 0.2 feet and 1.1 feet higher than in 4Q10), which resulted in saturated conditions within portions of the shallow aquifer which are normally dry.
- The footprint of residual groundwater contamination remains essentially the same as that identified during the 4Q10 event.

- The recent aggressive source removal action has strengthened the previously documented natural attenuation in the area.
- Site-related COCs and 1,3-butadiene were not detected in any of the three Ross Street monitoring well locations (MW-19-8, MW-19-12, MW-19-17).

# Section 5 MW-30 Area

The 2005 Source Reduction was implemented in the MW-30 area to remove as much of the free-product mass as possible. It was anticipated that some dissolved-phase contamination would remain in groundwater following the source reduction, and that residual groundwater contamination would to be addressed as part of a formal Record of Decision (ROD) amendment. The 2005 Source Reduction was a success in that no free product has been measured within the Source Reduction area since completion of that work and implementation of the PRMP. Residual contamination is being monitored and addressed as described below.

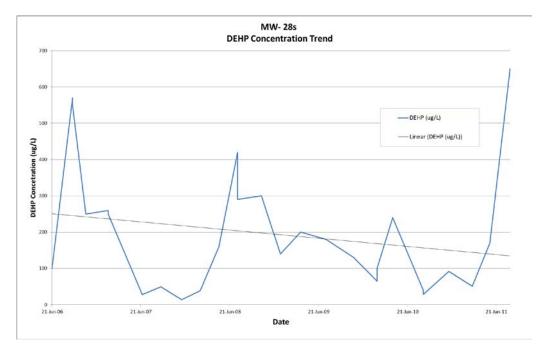
As shown on Figures 6 and 7, the current well network is adequate to sufficiently define the current extent of groundwater contamination that remains within the wetland area (monitoring wells MW-31, MW-32, MW-33, MW-34, and MW-35) and within the area subject to the aggressive source removal operation completed in 2005 (well clusters MW-28 and MW-30). The analytical results from all monitoring events are summarized in Tables 2 through 5.

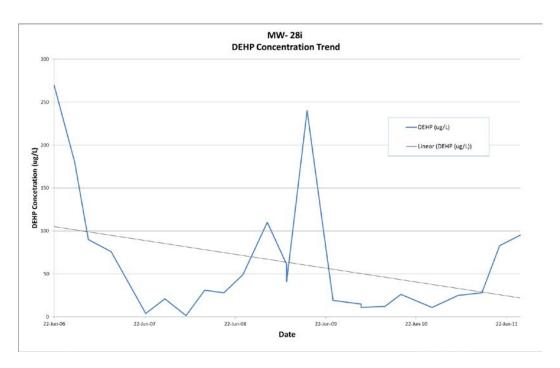
As shown in Table 2, two site monitoring wells displayed low level detections of DEHP concentrations in 3Q11 when compared to historical non-detectable results. Specifically, monitoring wells MW-25(R) and MW-27s had detections of 1.8 ug/L and 2.4 ug/L, respectively, compared to historical non-detect results. These levels are below the practical quantification limit of 3 ug/L, and MW-27s is an upgradient background well. Thus, these two detections should be considered outliers and are not representative of true groundwater quality at these locations.

The shallow wells that lie within the central (MW-28 cluster) and downgradient (MW-30 cluster) portions of the Source Reduction area both have screens that were placed below the slurry monolith. At both locations, intermediate monitoring wells MW-28i and MW-30i were installed and screened approximately 5 feet below the bottom of the shallow well screen (15 to 20 feet below ground surface (ft bgs) and 10 to 15 ft bgs, respectively.)

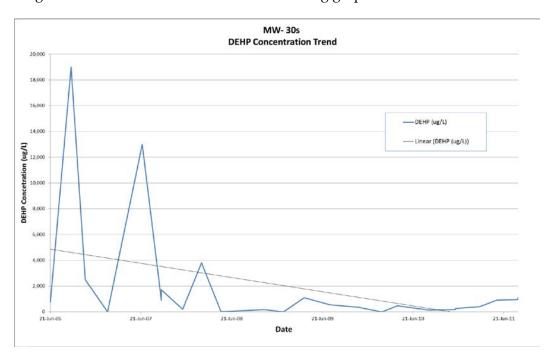
In 3Q11, low levels of dissolved groundwater contamination continue to be found in the Source Reduction area interior monitoring wells MW-28s and MW-28i (Table 2). Specifically, BTEX constituents have reduced to nearly non-detectable levels since post remediation monitoring began in June 2006. Low levels of ethylbenzene, toluene, and xylene were detected slightly above the practical quantification limit (PQL) in MW-28S in 3Q11, but well below the Class II-A New Jersey Groundwater Quality Standards (NJGWQS). Ethylbenzene and xylenes have only been detected once in MW-28i since 4Q06. Dissolved DEHP concentrations continue to

fluctuate at both MW-28s and MW-28i. Relatively elevated levels of DEHP found during the 3Q11 event are likely related to high levels of turbidity in groundwater samples collected during this period. The overall trend of DEHP concentration is downward as shown in the following graphs:





Dissolved site COCs also continue to be present in groundwater samples collected from Source Reduction area downgradient well MW-30s. However, only DEHP remains above NJGWQS; all BTEX concentrations have been either non-detect or below NJGWQS since 1Q08. The concentration of DEHP in well MW-30s, while fluctuating somewhat from quarter to quarter, has a strong trend downward as shown in the following graph:



Since 1Q07, only sporadic low-level detections of DEHP have been found in groundwater collected from monitoring wells MW-30i and MW-30d. As discussed above, elevated detections of DEHP during the 3Q11 sampling event are believed to be unrelated to actual site groundwater conditions.

Low concentration detections of ethylbenzene were also observed in 3Q11. This indicates that the vertical extent of Site COCs in the vicinity of the MW-30 cluster is limited to only the top five feet or less of the shallow water table within the first five feet of aquifer immediately below the slurry monolith.

As part of the 3Q11 sampling event, the five wetland area monitoring wells (MW-31s, MW-32s, MW-33s, MW-34s, and MW-35s) were sampled for groundwater quality. The location of these wells, with respect to the Source Reduction and wetland areas, are shown on Figures 2 and 3; all of these wells are located outside of and downgradient from the Source Reduction excavation area.

During 3Q11, groundwater samples collected from wetland area wells MW-31s, MW-32s, MW-34s, and MW-35s had concentrations of benzene, ethylbenzene and total xylenes above the higher of the NJGWQS and PQL (Table 2; Figure 6). Groundwater samples collected from MW-31s, MW-32s, MW-33s, MW-34s, and MW-35s also contained concentrations of DEHP above the greater of the NJGWQS and PQL (Table 2 and Figure 7). Free product was not measured within any of the wetland wells during the 3Q11 monitoring event. The concentration trends of dissolved benzene, ethylbenzene, and xylenes will continue to be carefully monitored.

Concentrations of detected MNA parameters collected from this area of the site are summarized on Tables 3 and 4. These parameters continue to show that biodegradation remains strong downgradient of the 2005 Source Remediation area. Monitoring results for HPC show high readings from monitoring wells 32s and 33s (140,000 and 560 cfu/ml, respectively).

Furthermore, additional investigations to determine nature and extent are proposed for this area as described in the July 8, 2011 Revised Addendum to the USEPA approved RAWP. The Addendum focuses on characterization and gathering data that will be used to develop a means to prevent further discharge of groundwater contamination into the Eastern Drainage Channel and Rockaway River.

# Section 6 Surface Water

The Rockaway River adjacent and downstream from the LEC Site is classified as a Category 1 fresh water trout maintenance stream (FW2-TM(C1); ref. Surface Water Quality Standard Reference: N.J.A.C 7:9B-1.15 (e), Table 3 January 2010; (Dover) – Washington Pond outlet downstream to Rt. 46 bridge). In N.J.A.C. 7:9B-1.4, "Category 1 waters" means those waters designated in the tables in N.J.A.C. 7:9B-1.15(c) through (g), for purposes of implementing the antidegradation policies set forth at N.J.A.C. 7:9B-1.5(d), for protection from measurable changes in water quality based on exceptional ecological significance, exceptional recreational significance, exceptional water supply significance, or exceptional fisheries resource(s) to protect their aesthetic value (color, clarity, scenic setting) and ecological integrity (habitat, water quality, and biological functions). As such, TRC compared Site COC concentrations detected in the Eastern Drainage Channel and Rockaway River samples against background concentrations found in upgradient sample SW-R-6, collected below the Washington Forge Pond dam, at the upgradient end of the Site.

#### 6.1 Eastern Drainage Channel

As part of the 3Q11 event, five points (SW-D-1, SW-D-2, SW-D-3, SW-D-4, and SW-D-5) within the Eastern Drainage Channel that separates the adjacent Air Products property from the LEC Site and the adjacent Wharton Enterprises property were sampled for surface water quality. This sampling was conducted at the request of NJDEP as outlined in their letter dated March 23, 2005.

All surface water sample locations are shown on Figure 2. The laboratory analytical results for these Eastern Drainage Channel samples are summarized on Table 5, and Figures 6 and 7.

BTEX constituents were not detected at any surface water monitoring locations in the Eastern Drainage Channel. DEHP was detected above the NJSWQC in samples collected from four of the Eastern Drainage Channel surface water sampling locations (SW-D-1, SW-D-2, SW-D-3, SW-D-4). Migration of Site COCs into the Eastern Drainage Channel environment will be addressed during the upcoming on-site investigations that are included in the USEPA approved September 2009 Addendum to the approved 2004 RAWP.

#### 6.2 Rockaway River

In addition to the Eastern Drainage Channel, five surface water samples were collected from the Rockaway River (Table 5 and Figures 6 and 7).

Rockaway River samples collected at surface water sampling locations SW-R-1, SW-R-2, SW-R-3, and SW-R-4 were non-detect for Site COCs.

River sample SW-R-6 was taken just downstream of the Washington Forge Pond dam. As a result of USEPA comments in an email dated December 21, 2009, this location now serves as the background monitoring location for the Site. Surface water samples SW-R-1 through SW-R-4, are compared to the results of SW-R-6, per N.J.A.C. 7:9B-1.5 (d) 6iii. Site COCs were not detected in the surface water sample SW-R-6.

Another surface water sample was collected in the Eastern Drainage Channel near its intersection with the Rockaway River (approximately 10 feet upstream in the Eastern Drainage Channel; see Figure 2). This location represents the surface water discharge point from the Eastern Drainage Channel/beaver pond into the Rockaway River. Similar to the other river samples collected, Site COCs were not detected in the "Ditch-River Confluence" sample DRC-2.

Surface water sampling at the Eastern Drainage Channel as well as the Rockaway River and Washington Forge Pond will continue to take place during each quarterly monitoring event. Specifics regarding surface water sampling locations, frequency and analytes are presented in the PRMP and associated QAPP.

# Section 7 Additional and Future Project Activities

LEC, USEPA, and RMT designed a SOW to accompany the UAO. Both the UAO and associated SOW were executed in August 2009. The following subsections briefly outline continuing UAO and SOW required activities anticipated for completion over the next 3 to 6 months. An updated Master Project Schedule is presented in Appendix C.

#### 7.1 General and Administrative Site Scope and Tasks

- Following receipt of USEPA approval of the Final RAWP Addendum documenting assessment and preferred remedial action for the the MW-30 area
  - Finalize the Community Involvement Plan (CIP)
  - Finalize the Revised RAWP Addendum and associated Uniform Federal Policy (UFP) compliant QAPP

#### 7.2 Individual Areas of Concern Scopes and Tasks

#### 7.2.1 MW-30 Area of Concern

- Approval and receipt of the Flood Hazard Area Permit from the NJDEP DLUR was received on August 19, 2010.
- Remedial investigation and pilot testing activities outlined in the USEPA approved RAWP Addendum are anticipated to begin in 4Q11, following USEPA approval of the revised RAWP Addendum submitted on July 8, 2011.
- Continue quarterly groundwater and surface water quality monitoring activities

#### 7.2.2 MW19/Hot Spot 1 Area of Concern

- Continue quarterly groundwater quality and MNA performance monitoring activities.
- Consistent with the USEPA request received with RAR Addendum approval, the MW19HS1 monitoring program will include sampling of three Ross Street monitoring well locations for a minimum of four additional quarters, beginning with the 3Q11 event, to confirm absence of detectable concentrations of volatile COCs in groundwater.

 Ross Street well sampling will include analysis for site-related COCs (BTEX and DEHP) and 1,3-butadiene, a non-site-related COC previously detected at low concentrations in Ross Street soil gas samples.

#### 7.3 Wetland Monitoring, Invasive Species Control, and Reporting

The 2009 Compensatory Mitigation Monitoring Report was submitted on December 28, 2009. Year 2009 is considered the fifth and final growing season where semiannual monitoring and reporting is required by the 2005 GP-4 wetlands permit. However, as outlined in the report, annual monitoring and invasive species control events will continue on a semiannual basis as required by permit conditions until agency sign-off is obtained. Additional wetland restoration, monitoring, and reporting issues were addressed in the Addendum to the USEPA approved RAWP (RMT, April 2004), submitted September 3, 2009. USEPA provided comments on the Addendum to the RAWP in an email dated December 21, 2009. Responses to the MW-30 area specific comments were submitted to the USEPA on February 1, 2010 and approved by USEPA in their email dated February 22, 2010.

Wetland monitoring in 2011 occurred the week of May 23<sup>rd</sup> and September 19<sup>th</sup>, 2011 with the subsequent annual report to be submitted during December 2011.

#### **Tables**

### TABLE 1 Dayco Corporation/L.E. Carpenter Superfund Site Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Elevations

				PROFESSIONAL SU	RVEY INFORMAT	ION (2)									
		BASELINE LO	LOCATION (FT) ELEVATION (FT, MSL)				QUARTERLY MEASUREMENT INFORMATION								
WELL LOCATION	MONITORING DEVICE TYPE		ne Coordinates	GEODETIC I	LOCATION				MEAS.	PRODUCT	WATER	PRODUCT	WATER		CORRECTED
		(Y) North	(X) East	LATITUDE	LONGITUDE	GROUND (6)	OUTER CASING	INNER WELL	DATE	DEPTH	DEPTH	ELEVATION	ELEVATION	PRODUCT THICKNESS	WATER ELEVATION
GEI-3I	Piezometer	754311.79	470453.7	40° 54' 14.8"	74 <sup>0</sup> 34' 43.7"	636.96	639.39	639.25	15-Aug-11	DEFIN	1.26		637.99	(FT)	ELEVATION
MW-8	Monitoring Well	754099.29	471251.06	40° 54' 12.7"	74°34'33.3"	627.39	629.96	628.19	16-Aug-11		1.95	-	626.24		
MW-9	Monitoring Well	754075 94	471111 03	40° 54' 12.5"	74°34'35.1"	628.61	631.09	629.58	16-Aug-11		2.48	-	627 10		
MW-12S(R)	Monitoring Well	754055 97	471042.34	40° 54' 12.3"	74 34 35.1 74°34'35.9"	631.57	634.26	633.73	16-Aug-11		7.12		626.61		
MW-13S	Monitoring Well	754353.97	471370.04	40° 54' 15.3"	74 34 33.9 74°34'31.7"	627.74	630.80	630.63	16-Aug-11		2.87		627.76		
MW-13S(R)	Monitoring Well	754333.07	471365.71	40° 54' 15.0"	74°34'31.8"	627.66	630.36	629.99	10.1108.11		NM-No Access				
MW-13I	Monitoring Well	754337.8	471360.31	40° 54' 15.1"	74 34 31.8" 74°34'31.9"	627.76	630.28	630.06	16-Aug-11		3.63	-	626.43		
MW-15S	Monitoring Well	754326.58	470891.83			634.23	636.43	636.17	16-Aug-11		9.53		626.64		
MW-15I	Monitoring Well	754325.8	470991.83	400 54' 15.0"	74034138.0"	634.14	636.28	636.06	16-Aug-11 16-Aug-11		9.33	-	626.62		
	Monitoring Well	754323.8	470759.85	40° 54' 15.0"	74°34'37.9" 74°34'39.7"	632.35	634.32	634.19	16-Aug-11 16-Aug-11		6.92		627.27		
MW-17(S) MW-18S		754677.95	471117.26	40° 54' 12.8"		627.62	630.88	630.66	10-Aug-11			loned Novem			
	Monitoring Well			40° 54' 18.4"	74034'35.0"							loned Novem			
MW-18I	Monitoring Well	754675.11	471106.07	40° 54' 18.4"	74034'35.2"	627.75	630.59	630.44	45.4.44			ioneu novem		ı	
MW-19R	Monitoring Well	754533.15	470461.18	40° 54' 17.4"	74034'42.2"	635.19	635.31	634.95	15-Aug-11		8.23	-	626.72		1
MW-19-5R	Monitoring Well	754565.77	470474.05	40° 54' 17.7"	74°34'42.0"	635.51	635.54	635.20	15-Aug-11		8.25		626.95		1
MW-19-6R	Monitoring Well	754574.70	470439.39	40° 54′ 17.8″	74°34'42.4"	635.87	635.85	635.46	15-Aug-11		8.44		627.02		
MW-19-7R	Monitoring Well	754591.32	470496.36	40° 54' 17.9"	74°34'41.7"	635.30	635.36	634.97	15-Aug-11		8.03	-	626.94		1
MW-19-8	Monitoring Well	754617.50	470493.62	400 54' 18.2"	74°34'41.7"	635.57	635.52	635.11	15-Aug-11		8.12		626.99		
MW-19-9D	Monitoring Well	754590	470442	40° 54' 17.9"	74 <sup>0</sup> 34' 42.4"	636.39	636.41	636.10				doned Novem		ı	
MW-19-12	Monitoring Well	754627.53	470529.72	40° 54' 18.3"	74°34'41.3"	634.93	634.93	634.46	15-Aug-11		7.49	-	626.97		
MW-19-13	Monitoring Well	754579.37	470529.59	40° 54' 17.8"	74°34'41.3"	634.87	634.81	634.33	15-Aug-11		7.47		626.86		
MW-19-14	Monitoring Well	754533.49	470484.56	40° 54' 17.4"	74034'41.9"	635.07	635.14	634.82	15-Aug-11		8.10		626.72		
MW-19-15	Monitoring Well	754486.40	470446.05	400 54' 16.9"	74°34'42.4"	635.56	635.57	635.26	15-Aug-11		7.81	-	627.45		
MW-19-16	Monitoring Well	754505.02	470534.21	40° 54' 17.1"	74°34'41.2"	634.66	634.67	634.35	15-Aug-11		6.40	-	627.95		
MW-19-17	Monitoring Well	754602.50	470442.02	40° 54' 18.1"	74°34'42.4"	636.26	636.25	635.85	15-Aug-11		8.88		626.97		
MW-21 (3)	Monitoring Well	754240.97	471645.78	40° 54' 14.1"	74°34'28.2"	624.57	628.49	628.20	15-Aug-11		2.68		625.52		
MW-25(R) (3)	Monitoring Well	754201.83	471518.21	40° 54' 13.7"	74034'29.8"	624.65	626.77	626.62	15-Aug-11		2.28	-	624.34		
MW-27s	Monitoring Well	754253.78	470672.69	40° 54' 14.613"	74° 34' 39.402'	635.82	635.78	635.07	15-Aug-11		8.06		627.01		
MW-28S	Monitoring Well	754243.26	471034.34	40° 54' 14.512"	74° 34' 34.692'	628.20	631.28	631.14	15-Aug-11		4.98	-	626.16		
MW-28I	Monitoring Well	754242.87	471031.19	40° 54' 14.508"	74° 34' 34.733'	628.25	631.20	631.04	15-Aug-11		4.86	-	626.18		
MW-29S	Monitoring Well	754411.14	471187.85	40° 54' 16.172"	74° 34' 32.694'	629.94	632.83	632.66	15-Aug-11		6.46	-	626.20		
MW-30S	Monitoring Well	754281.65	471265.12	40° 54' 14.893"	74° 34' 31.686'	624.99	628.24	628.24	15-Aug-11		2.63	-	625.61		
MW-30I	Monitoring Well	754286.42	471263.15	40° 54' 14.941"	74° 34' 31.712'	625.14	628.15	628.01	15-Aug-11		2.32		625.69		
MW-30D	Monitoring Well	754290.05	471261.2	40° 54' 14.976"	74° 34' 31.737'	625.20	628.22	628.02	15-Aug-11		2.09		625.93		
MW-31S	Monitoring Well	754241.65	471341.5	40° 54' 14.499"	74° 34' 30.691'	627.94	630.00	629.82	15-Aug-11		4.59		625.23		
MW-32S	Monitoring Well	754207.08	471359.83	40° 54' 14 157"	74° 34' 30 452'	628.15	630.33	630.18	15-Aug-11		4.82	-	625.36		
MW-33S	Monitoring Well	754170.51	471311.04	40° 54' 13.796"	74° 34′ 31.087′	628.85	631.06	630.91	15-Aug-11		5.07	-	625.84		<del>                                     </del>
															-
MW-34S	Monitoring Well	754178.83	471399.49	40° 54' 13.879"	74° 34' 29.935'	628.07	629.97	629.93	15-Aug-11		4.76	-	625.17		1
MW-35S	Monitoring Well	754179.62	471445.17	40° 54' 13.887"	74° 34' 29.340'	627.43	629.59	629.19	15-Aug-11		4.26	-	624.93		1
SG-R2 (3)	Rockaway River Monitoring Point	754056.10	470946.46	40° 54' 12.662"	74° 34' 35.834'	629.41	-	-	16-Aug-11		1.58	-	627.83		
SW-R-1 (4)	Rockaway River Monitoring Point	754125.56	471523.00	40° 54' 13.353"	74° 34' 28.326'	625.87	-	-	16-Aug-11		1.83	-	624.04	<u></u>	<u> </u>
SW-R-2 (4)	Rockaway River Monitoring Point	754112.82	471426.51	40° 54' 13.226"	74° 34' 29.582'	626.54	-	-	16-Aug-11		1.75	1	624.79		
SW-R-3 (4)	Rockaway River Monitoring Point	754149.30	471368.76	40° 54' 13.586"	74° 34' 30.335'	626.25	-	-	16-Aug-11		1.11	-	625.14		
SW-R-4 (4)	Rockaway River Monitoring Point	754088.00	471279.58	40° 54' 12.980"	74° 34' 31.496'	627.57	-	-	16-Aug-11		2.40	-	625.17		
	,	754314.04	470408.85		74 34 31.496 74 <sup>0</sup> 34' 42 839'	640.66			16-Aug-11		1.01		639.65		
SW-R-5 (4)	Rockaway River Monitoring Point			40° 54' 15.206"			-	-	10-74ug-11			-			
SW-R-6 (4)	Rockaway River Monitoring Point	754071.52	470697.75	40° 54' 12.812"	74° 34' 39.073'	631.68	-	-			NM-damaged	-	-		
SW-D-1 (5)	Drainage Channel Staff Gauge	754428.36	471240.17	40° 54' 16.343"	74° 34' 32.013'	625.75	-	-	16-Aug-11		1.60	-	624.15		
SW-D-2 (5)	Drainage Channel Staff Gauge	754285.35	471361.22	40° 54' 14.931"	74° 34' 30.435'	626.07	-	-	16-Aug-11		1.82	-	624.25		<u> </u>
SW-D-3 (5)	Drainage Channel Staff Gauge	754381.23	471548.18	40° 54' 15.880"	74° 34' 28.001'	625.70	-	-	16-Aug-11		1.35	-	624.35		
SW-D-4	Drainage Channel Monitoring Point	754297.19	471292.08	40° 54' 15.047"	74° 34' 31.355'	625.02	-	-	16-Aug-11		0.84	-	624.18		
SW-D-5	Drainage Channel Monitoring Point	754223.14	471920.10		74° 34' 23.155'	626.86	-	-	16-Aug-11		3.15	-	623.71		
		754223.14	471920.10			623.29	_	-	16-Aug-11		1.12		622.17		
DRC-2	Drainage Channel Monitoring Point	/3411/.49	4/17/1.38	40° 54' 13.277"	74° 34′ 22.483′	023.29	_		10-Aug-11		1.12	-	022.17		

- FOOTNOTES

  (1) Reference elevation measured at the top of a 3.33 ft. Staff gauge. Water depth based on a visual observation of the water level on the Staff gauge.
  (2) Horizontal Datum: New Jersey State Plane Coordinate System NAD 83. Vertical Datum: NAV D88

  (3) New S-G-R splaced the old S-G-R statisfied in Nov. 1998. Professional survey performed by James M. Stewart, Inc., Philadelphia, PA May 2004. SG-R2 is a chiseled arrow on Iron Beam

  (4) As outlined in the PRMF the six (6) new Rockaway River monitoring points reference survey elevation was shot at the top of a stake installed to each point

  (5) SW-D-1, SW-D-2 and SW-D-3 were resurveyed points at the top of the stake that secures each drainage dich staff gauge.

  These points were reshot to insure the reference elevation integrity remained for each of the 3 staff gauges as a result of source reduction remedial disturbance.

  (6) Ground reference elevation for SC and SW series gauges and monitoring points is a point specific to each devise (i.e., top of stake, to of gauge, notched point on concrete or iron etc)

  (7) Corrected water level elevations utilize an average specific gravity of 0.9363 (RMT, Inc., product samplig in October 1999)

	ANALYTICAL PARAMETERS								
MONITORING WELLS	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-	1,3-Butadiene	
	OAMI EL DATE	QUARTER				,	phthalate (DEHP)	-	
UNITS SOLUBILITY LIMIT			ug/l 1,700,000	ug/l 152,000	ug/l 515,000	ug/l 175,000	ug/l 334	ug/l	
PRACTICAL QUANTITAT	ION LIMIT [PQL]		1,700,000	2	1	2	3		
		ARDS (NJGWQS) CLASS IIA	0.2	700	600	1,000	2		
HIGHER OF NJGWQS AN	ID PQL		1	700	600	1,000	3		
MW19 Dilution factor for BTEX 2000	24-Feb-95	1	< 660	1,700	110,000	10,000	NR		
Dilution factor for BTEX 100		2	150	3,400	140.000	17,000	NS		
EX & 2 for DEHP; MDL for Benzene 1000 ug/l	24-Apr-98	2	< 1,000	2,850	76,700	14,900	7		
Dilution factor for BTEX 500		3	< 95	3,000	62,000	17,000	3		
Dilution factor for BTEX 1000 Dilution factor for BTEX 100, Toluene 200	6-Jun-02 20-Nov-03	2 4	< 200 < 20	1,000 1,500	30,000 40,000	6,000 7,400	6 J 6		
•	15-Jun-04	2	< 100	1,400	46,000	6,600	J 4		
Dilution factor for BTEX 100, Toluene 500		3	< 20	2,100	56,000	11,000	J 2		
Dilution factor for BTEX 50 rab Water Sample; Dilution factor for BTEX 5	13-Jan-05 8-Apr-05	<u>1</u>	< 10	<b>750</b> 97	18,000 1,300	<b>3,600</b> 530	< 1 J 3		
b Water Sample; Dilution factor for Toluene 5	8-Apr-05	2	< 0.2	86.0	410.0	430.0	J 3.0		
Dilution factor for BTEX 200	27-Jul-05	3	< 40	1,100	44,000	6,000	J 2		
Dilution factor for BTEX 100 Dilution factor for BTEX 250		<u>4</u> 1	< 20 < 50	200 <b>880</b>	10,000 28,000	1,200 4,900	J 5		
Dilution factor for BTEX 200	20-Jun-06	2	< 40	1,600	53,000	8,700	J 3		
Dilution factor for BTEX 200	13-Sep-06	3	< 40	2,100	51,000	11,000	J 3		
Dilution factor for BTEX 200		4	< 40	2,200	59,000	11,000	J 2		
Dilution factor for BTEX 500 Dilution factor for BTEX 50, Toluene 200	8-Feb-07 27-Jun-07	<u>1</u> 2	< 500 < 50	<b>1,900</b> 680	93,000 32,000	9,800 3,000	< 1		
Dilution factor for BTEX 100, Toluene 500	12-Sep-07	3	< 100	1,500	76,000	7,300	3		
Dilution factor for BTEX 250, DEHP 1.1	4-Dec-07	4	< 250	1,500	49,000	7,500	< 1	<u> </u>	
factor for BEX 100, Toluene 200, DEHP 1.05	20-Feb-08 7-May-08	<u>1</u>	< 1.0 < 100	< 1.0 650	< 5.0 <b>26,000</b>	< 3.0 <b>2,800</b>	< 1		
0, Ethylbenzene & Xylenes 200, Toluene 500	7-May-08 7/23/2008	3	< 100	1,000	35,000	5,400	< 1		
Dilution factor for BTEX 200	10/29/2008	4	< 40	1,400	43,000	6,800	J 3		
50, Ethylbenzene & Xylenes 50, Toluene 500		1	< 45	700	34,000	3,500	J 2		
Dilution factor for BEX 50, Toluene 500 Dilution factor for BEX 50, Toluene 500	4/8/2009 7/22/2009	2 <sup>(5)</sup>	< 45 < 45	940 1,100	37,000 48,000	4,800 5,700	J <b>3</b>		
Dilution factor for BEX 50, Toluene 500	112212009	MW-19 abandoned Oc		1,100	40,000	5,700	JI		
MW19R									
	12/8/2010	4	< 0.5	400	1000	1200	1.2		
	3/14/2011	11	< 0.5	< 0.5	< 0.5	< 1.5	< 1	< 1.0	
Dilution factor Toluene 10	5/24/2011 8/16/2011	2 3	< 0.5 < 0.5	43 39	8.3 230	200 120	1.6 < 0.98		
Bilation factor rolatine to	0/10/2011	<u> </u>	V 0.0	- 55	200	120	0.50		
MW19-5									
Dilution factor for BTEX 5000 Dilution factor for BTEX 1000	12-Mar-98 2-Aug-01	<u>1</u> 3	< 1,000 < 190	1,920 870	123,000 79,000	10,100 5,200	42 3		
Dilution factor for BTEX 500	7-Mar-02	<u>3</u> 1	< 140	300	10,000	1,700	1		
Dilution factor for BTEX 5000, for DEHP 20		2	< 1,100	1,100	92,000	6,300	< 10		
Dilution factor for BTEX 5000, for DEHP 20	5-Jun-02	2 <sup>duplicate</sup>	< 1,100	1,300	92,000	6,900	< 9		
	19-Nov-03	4 4 <sup>resample</sup>	< 0.2	< 0.2	4.3	J 0.9	< 0.9		
	18-Dec-03 16-Jun-04	2	< 0.2 < 100	3.7 <b>1,400</b>	240.0 <b>83,000</b>	24.0 <b>7,400</b>	< 0.9 J 1		
	10-Aug-04	3	< 200	2,800	140,000	14,000	J 1		
Dilution factor for BTEX 10		1	< 2	64	3,100	340	< 1		
ctot for BTEX 200, Lower Grab Water Sample Upper Grab Water Sample	9-Apr-05 9-Apr-05	2 2	< <b>40</b> < 0.2	<b>1,000</b> J 0.4	<b>27,000</b> 9.5	<b>5,300</b> J 2.3	J 1 < 1.0		
Dilution factor for BTEX 500		3	< 100	2,600	100,000	13,000	< 1.0		
	27-Oct-05	4	< 0.2	6.8	140.0	37.0	< 1.0		
Dilution factor for BTEX 100	20 1 00 00	<u>1</u> 2	< 20	290 130	19,000	<b>1,500</b> 730	< 1		
Dilution factor for BTEX 20 Dilution factor for BTEX 100		3	< 4 < 20	550	4,000 25,000	<b>2,800</b>	< 1		
Dilution factor for BTEX 100	8-Nov-06	4	< 20	410	22,000	2,000	9		
Dilution factor for BTEX 500		1 2	< 500	2,100	98,000	10,000	< 1		
Dilution factor for BTEX 100, Toluene 1000 Dilution factor for BTEX 100, Toluene 500		2 3	< 100 < 100	1,700 1,100	98,000 67,000	8,200 5,200	< 1		
ion factor for BEX 200, Toluene 50, DEHP 1.1	4-Dec-07	4	< 200	820	4,400	4,200	< 1		
	20-Feb-08	1 dustinate	< 1	8	190	45	< 1		
Dilution factor for Toluene 5 [DUP-03]	20-Feb-08	1 duplicate	< 1	6	200	34	< 1		
ion factor for BEX 5, Toluene 100, DEHP 1.05	7-May-08 22-Jul-08	<u>2</u> 3	<b>7.2</b> < 1.0	270 <b>2,300</b>	15,000 95,000	1,300 12,000	< 1		
Dilution factor for BTEX 5	29-Oct-08	4	< 1.0	11	450	68	< 1		
Dilution factor for BEX 5 and Toluene 50		1	< 5.0	64	3,800	360	< 1		
	8-Apr-09	2	< 23.0	490	46,000	2,800	< 1		
Dilution factor for BEX 25 and Toluene 250	0.400	auplicate	< 45.0	610 <b>1,200</b>	38,000 68,000	3,200 6,600	< 1		
Dilution factor for BEX 25 and Toluene 250 Dilution factor for BEX 50 and Toluene 500		2 <sup>duplicate</sup>							
Dilution factor for BEX 25 and Toluene 250		2 <sup>oupricate</sup> 3 MW-19-5 abandoned O	< 45.0	1,200	00,000				
Dilution factor for BEX 25 and Toluene 250 Dilution factor for BEX 50 and Toluene 500 Dilution factor for BEX 50 and Toluene 500		3	< 45.0	1,200					
Dilution factor for BEX 25 and Toluene 250 Dilution factor for BEX 50 and Toluene 500 Dilution factor for BEX 50 and Toluene 500  MW19-5R	22-Jul-09	3 MW-19-5 abandoned O	< <b>45.0</b> cober 13, 2009				1.4		
Dilution factor for BEX 25 and Toluene 250 Dilution factor for BEX 50 and Toluene 500 Dilution factor for BEX 50 and Toluene 500  MW19-5R yl benzene 25, Xylene 250 and Toluene 1000	22-Jul-09 8-Dec-10	3	< <b>45.0</b> cober 13, 2009	2700.0	80000.0	15000.0	1.4	< 1.0	
Dilution factor for BEX 25 and Toluene 250 Dilution factor for BEX 50 and Toluene 500 Dilution factor for BEX 50 and Toluene 500  MW19-5R yl benzene 25, Xylene 250 and Toluene 1000 or ethyl benzene 500, xylene 500, toluene 500 ethyl benzene 100, xylene 100, toluene 1000	22-Jul-09 8-Dec-10 16-Mar-11 25-May-11	3 MW-19-5 abandoned O	< 45.0 cober 13, 2009 19.0 20.0 5.4	2700.0 2100.0 2200.0	80000.0 92000.0 49000.0	15000.0 11000.0 12000.0	< 0.95 1.20	< 1.0	
Dilution factor for BEX 25 and Toluene 250 Dilution factor for BEX 50 and Toluene 500 Dilution factor for BEX 50 and Toluene 500  MW19-5R yl benzene 25, Xylene 250 and Toluene 1000 or ethyl benzene 500, xylene 500, toluene 500 rfor ethyl benzene 100, xylene 50, toluene 500 rfor ethyl benzene 50, xylene 50, toluene 500	8-Dec-10 16-Mar-11 25-May-11 16-Aug-11	3 MW-19-5 abandoned O	< 45.0 cober 13, 2009  19.0 20.0 5.4 8.8	2700.0 2100.0 2200.0 2600.0	80000.0 92000.0 49000.0 55000.0	15000.0 11000.0 12000.0 13000.0	< 0.95 1.20 1.40	< 1.0	
Dilution factor for BEX 25 and Toluene 250 Dilution factor for BEX 50 and Toluene 500 Dilution factor for BEX 50 and Toluene 500  MW19-5R yl benzene 25, Xylene 250 and Toluene 1000 or ethyl benzene 500, xylene 500, toluene 500 ethyl benzene 100, xylene 100, toluene 1000	22-Jul-09 8-Dec-10 16-Mar-11 25-May-11	3 MW-19-5 abandoned O	< 45.0 cober 13, 2009 19.0 20.0 5.4	2700.0 2100.0 2200.0	80000.0 92000.0 49000.0	15000.0 11000.0 12000.0	< 0.95 1.20	< 1.0	
Dilution factor for BEX 25 and Toluene 250 Dilution factor for BEX 50 and Toluene 500 Dilution factor for BEX 50 and Toluene 500  MW19-5R yl benzene 25, Xylene 250 and Toluene 1000 or ethyl benzene 500, xylene 500, toluene 500 ethyl benzene 100, xylene 100, toluene 1000 f for ethyl benzene 50, xylene 50, toluene 500 rfor ethyl benzene 50, xylene 50, toluene 500	8-Dec-10 16-Mar-11 25-May-11 16-Aug-11	3 MW-19-5 abandoned O	< 45.0 cober 13, 2009  19.0 20.0 5.4 8.8	2700.0 2100.0 2200.0 2600.0	80000.0 92000.0 49000.0 55000.0	15000.0 11000.0 12000.0 13000.0	< 0.95 1.20 1.40	< 1.0	
Dilution factor for BEX 25 and Toluene 250 Dilution factor for BEX 50 and Toluene 500 Dilution factor for BEX 50 and Toluene 500  MW19-5R yl benzene 25, Xylene 250 and Toluene 1000 or ethyl benzene 500, xylene 500, toluene 500 ethyl benzene 500, xylene 500, toluene 500 ethyl benzene 500, xylene 50, toluene 500 r for ethyl benzene 50, xylene 50, toluene 500 r for ethyl benzene 50, xylene 50, toluene 500  MW19-6 Dilution factor for BTEX 200	8-Dec-10 16-Mar-11 25-May-11 16-Aug-11	3 MW-19-5 abandoned O	< 45.0 cober 13, 2009  19.0 20.0 5.4 8.8	2700.0 2100.0 2200.0 2600.0	80000.0 92000.0 49000.0 55000.0	15000.0 11000.0 12000.0 13000.0	< 0.95 1.20 1.40	< 1.0	
Dilution factor for BEX 25 and Toluene 250 Dilution factor for BEX 50 and Toluene 500 Dilution factor for BEX 50 and Toluene 500  MW19-5R  yl benzene 25, Xylene 250 and Toluene 1000 or ethyl benzene 500, xylene 500, toluene 500 ethyl benzene 100, xylene 500, toluene 500 r for ethyl benzene 50, xylene 50, toluene 500 r for ethyl benzene 50, xylene 50, toluene 500  MW19-6	8-Dec-10 16-Mar-11 25-May-11 16-Aug-11	3 MW-19-5 abandoned O	45.0 cober 13, 2009 19.0 20.0 5.4 8.8 10.0	2700.0 2100.0 2200.0 2600.0 2600.0	80000.0 92000.0 49000.0 55000.0 52000.0	15000.0 11000.0 12000.0 13000.0 13000.0	< 0.95 1.20 1.40 1.10	< 1.0	

			ΔΝΔΙ ΥΤΙΟΔΙ	PARAMETERS				
MONITORING WELLS							bis-2-Ethylhexyl-	
MONTORING WEELS	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	phthalate (DEHP)	1,3-Butadiene
UNITS			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
SOLUBILITY LIMIT			1,700,000	152,000	515,000	175,000	334	V
PRACTICAL QUANTITATI NEW JERSEY GROUNDY		DARDS (NJGWQS) CLASS IIA	0.2	700	600	1,000	3 2	
HIGHER OF NJGWQS AN	D PQL	57 II ( 50 ( 1 1 0 0 1 1 2 0 ) 0 2 1 1 0 0 1 1 1 1	1	700	600	1,000	3	
	17-Jun-04 10-Aug-04	<u>2</u> 3	< 0.2	J 0.4 4.6	1.1 38.0	1.2 18.0	J 3.0 J 4.0	
	13-Jan-05	<u>3</u> 1	< 0.2	4.0	36.0	14.0	J 1.0	
Lower Grab Water Sample	9-Apr-05	2	< 0.2	16.0	160.0	64.0	< 1.0	
Upper Grab Water Sample	9-Apr-05 26-Jul-05	<u>2</u> 3	< 0.2	11.0 3.6	74.0 27.0	37.0 14.0	< 1.0 J <b>2.0</b>	
	27-Oct-05	4	< 0.2	5.4	110.0	25.0	< 0.9	
	28-Feb-06 20-Jun-06	1 2	< 0.2	5.8 1.7	65.0 3.2	23.0 5.0	< 1.0 < 1.0	
	20-Jun-06 20-Jun-06	2 <sup>duplicate</sup>	< 0.2	1.7	3.2	4.9	< 1.0	
	12-Sep-06	3	< 0.2	J 0.3	1.0	J 0.9	< 1.0	
	7-Nov-06	<u>4</u> 1	< 0.2 < 1.0	J 0.3 < 1.0	< 0.2	J 0.6	< 0.9 < 1.0	
	7-Feb-07 26-Jun-07	2	< 1.0	< 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.0	
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0	
	4-Dec-07 19-Feb-08	4 1	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.0 < 1.0	
Dilution for DEHP 1.25	6-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0	
	22-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0	
	29-Oct-08 14-Jan-09	<u>4</u> 1	< 0.2	< 0.2 < 0.8	< 0.2 < 0.8	< 0.6 < 0.9	< 1.0 < 1.0	
	7-Apr-09	2	< 0.9	J 1.0	8.0	J 4.0	< 1.0	
	21-Jul-09	3 MW-19-6 abandoned Oc	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0	
1		ivivv-19-6 abandoned Oc	JODEL 13, 2009				1	
MW19-6R								
	8-Dec-10 14-Mar-11	<u>4</u> 1	< 0.5 < 0.5	7.1 8.1	100.0 33.0	63.0 38.0	<b>8.1</b> 1.1	< 1.0
	25-May-11	2	< 0.5	4.4	4.7	9.0	1.0	< 1.0
	16-Aug-11	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.96	
MW19-7								
Dilution factor for BTEX 50	15-Nov-99	4	< 16	100	51	1,400	< 4	
Dilution factor for BTEX 2	1-Aug-01	3	6.7	6.6	13.0	680	< 0.4	
Dilution factor for BTEX 5	7-Mar-02 5-Jun-02	<u>1</u> 2	<b>3</b> 0.48	1.60	< 1 27.00	250 27	2 < 0.40	
	19-Nov-03	4	4.7	J 0.4	J 0.3	460	J 1.0	
	16-Jun-04	2 2duplicate	J 2.8	130.0	2,100.0	630	< 1.0	
	16-Jun-04 10-Aug-04	3	J 4	130	<b>2,100</b>	610 20	< 1	
Dilution factor for BTEX 2	12-Jan-05	1	6.1	90.0	240.0	760	< 1.0	
LW C L D' C C C DTEV 05	12-Jan-05	1 duplicate	2.9	45.0	120.0	380	< 1.0	
ab Water Sample; Dilution factor for BTEX 25 ater Grab Sample; Dilution factor for BTEX 10	7-Apr-05 7-Apr-05	2 2	J <b>9.5</b> J <b>13</b>	210.0 370	2,700 5,600	1,400 2,300	< 1.0 < 1	
Lower Grab Water Sample	27-Jul-05	3	2.2	< 0.2	J 0.2	J 1.7	< 0.9	
Upper Grad Water Sample Dilution factor for BTEX 200	27-Jul-05 27-Oct-05	<u>3</u> 4	1.5 Ј <b>62</b>	< 0.2 <b>710</b>	J 0.5 <b>16,000</b>	J 2.4 3,600	< 1.0 < 1	
Dilution factor for Total Xylenes 5	28-Feb-06	1	7.5	4.9	J 0.3	870	< 1.0	
Dilution factor for Total Xylenes 5	28-Feb-06	1 duplicate	7.5	5.0	J 0.3	840	< 0.9	
Dilution factor for Total Xylenes 5	20-Jun-06 12-Sep-06	2 3	6.5 4.9	19.0 33.0	J 0.6 J 0.3	550 440	< 1.0 < 1.0	
Dilution factor for Total Ayleries 5	8-Nov-06	4	2.6	< 0.2	< 0.2	26	< 0.9	
	7-Feb-07	1	2.6	< 1.0	< 5.0	< 3.0	< 1.0	
	7-Feb-07	1 duplicate	2.6	< 1.0	< 5.0	< 3.0 23	< 1.0	
	27-Jun-07 11-Sep-07	3	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0	< 1.0 < 1.0	
Dilution for DEHP 1.1	5-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.1	-
Dilution for DEHP 1.05	19-Feb-08 7-May-08	1 2	< 1.0 < 1.0	7.3 < 1.0	55.0 < 5.0	36 5.6	< 1.0 < 1.0	
Simulation Delia 1.00	22-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0	
	28-Oct-08	4 4 <sup>duplicate</sup>	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0	
	28-Oct-08 14-Jan-09	4 duplicate 1	< 0.2 < 0.9	< 0.2 J 3.0	< 0.2 J 3.0	< 0.6 32.0	< 1.0 < 1.0	
	7-Apr-09	2	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0	
	21-Jul-09	3 MW-19-7 abandoned Oc	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0	
		www-13-7 abandoned Oc	13, 2009					
MW19-7R	-	<del></del>				1.5	1.0	-
r ethylbenzene 100, toluene 1000, xylene 100	8-Dec-10 14-Mar-11	<u>4</u> 1	< 0.5 11.0	< 0.5 1400.0	< 0.5 33000.0	< 1.5 <b>6200.0</b>	< 1.0 < 1.0	< 1.0
or ethylbenzene 100, toluene 100, xylene 100	25-May-11	2	4.2	330.0	9700.0	1500.0	< 1.0	
factor ethylbenzene 50, toluene 50, xylene 51	25-May-11	2 <sup>duplicate</sup>	4.1	520.0	10000.0	2100.0	35.0	
	16-Aug-11	3	< 0.5	< 0.5	< 0.5	< 1.5	3.1	
MW19-8								
Dilution factor for BTEX 50	15-Nov-99	4	< 0.31	< 0.38	< 0.34	< 0.40	< 4.10	
Dilution factor for BTEX 2	1-Aug-01 5-Jun-02	3 2	0.5 < 0.22	< 0.2 < 0.18	< 0.2 < 0.24	< 0.2 < 0.20	< 0.4 < 0.40	
	19-Nov-03	4	< 0.2	< 0.2	< 0.2	< 0.6	< 0.9	
	17-Jun-04 11-Aug-04	2 3	< 0.2	< 0.2 < 0.2	< 0.2 < 0.2	< 0.6	< 1.0 < 1.0	
	11-Aug-04 12-Jan-05	<u>3</u> 1	< 0.2	< 0.2 J 0.3	< 0.2	< 0.6	< 1.0 < 1.0	
	11-Apr-05	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0	-
	27-Jul-05 27-Oct-05	<u>3</u> 4	< 0.2	< 0.2 < 0.2	< 0.2 < 0.2	< 0.6 < 0.6	< 1.0 < 1.0	
	£1-001-00	7	~ V.4	~ V.4	~ V.Z	· 0.0	1 1.0	

		ANALYTICAL PARAMETERS										
MONITO	RING WELLS	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl- phthalate (DEHP)	1,3-Butadiene			
<del></del>	UNITS			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l			
	SOLUBILITY LIMIT	OLU INIT IDOLI		1,700,000	152,000	515,000	175,000	334	Ĭ			
	PRACTICAL QUANTITATI		ARDS (NJGWQS) CLASS IIA	0.2	700	600	1,000	3 2				
	HIGHER OF NJGWQS AN		ARDO (NOCTORO) OLACO IIA	1	700	600	1,000	3				
		14-Mar-11	1	< 0.5	< 0.5	< 0.5	< 1.5	< 1.0	< 1.0			
		16-Aug-11	<u>2</u> 3	NS < 0.5	NS < 0.5	NS < 0.5	NS < 1.5	NS < 1.0	< 1.0			
		10-Aug-11	3	< 0.5	< 0.5	< 0.5	V 1.5	< 1.0	< 1.0			
M\	W19-12											
		21-Jun-06 12-Sep-06	3	< 0.2 < 0.2	< 0.2 < 0.2	< 0.2 < 0.2	< 0.6 < 0.6	< 1.0 < 1.0				
		7-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0				
		7-Nov-06	4 <sup>duplicate</sup>	< 0.2	< 0.2	< 0.2	< 0.6	< 0.9				
		6-Feb-07 26-Jun-07	<u>1</u>	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.0 < 1.0				
		26-Jun-07	2 <sup>duplicate</sup>	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0				
		11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0				
		4-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0				
	Dilution for DEHP 1.11	19-Feb-08 6-May-08	1 	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0	< 1.0 < 1.1				
	Dilation for DETIL 1.11	22-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0				
		28-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0				
		13-Jan-09 7-Apr-09	<u>1</u> 2	< 0.9 < 0.9	< 0.8	< 0.8	< 0.9 < 0.9	< 1.0 < 0.9	1			
		21-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0				
		10-Nov-09 15-Feb-10	<u>4</u> 1	< 0.9 < 0.5	< 0.8 < 0.5	< 0.8 < 0.5	< 0.9 < 1.5	< 0.9 < 0.96	1			
		15-Feb-10 20-Apr-10	2	< 0.5	< 0.5	< 0.5	< 1.5 < 1.5	< 0.98				
		24-Aug-10	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.96				
		7-Dec-10 14-Mar-11	<u>4</u> 1	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	< 0.96 < 0.95	< 1.0			
		24-May-11	2	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95	< 1.0			
		16-Aug-11	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95	< 1.0			
M	W19-13			+								
		7-Dec-10	4	6.3	42.0	1.0	400.0	< 0.95				
	Dilution factor toluene 10	14-Mar-11	<u>1</u>	2.6	71.0	260.0 < 0.5	330.0 49.0	< 0.95 <b>3.50</b>	< 1.0			
		25-May-11 16-Aug-11	3	4.7 1.8	< 0.5 7.8	0.64	57.0	< 0.95				
M	W19-14	8-Dec-10	4	0.7	110.0	1,800.0	510.0	< 0.98				
		8-Dec-10	4 duplicate	< 0.5	120.0	2,100.0	580.0	< 1.00				
		16-Mar-11	1	< 0.5	< 0.5	1.4	< 1.5	< 0.99	< 1.0			
		16-Mar-11	1 duplicate	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95				
D	ilution factor for BTEX 50	24-May-11 16-Aug-11	<u>2</u> 3	< 0.5 0.56	< 0.5 190.0	< 0.5 <b>2,400.0</b>	< 1.5 860.0	< 0.95 < 0.95				
						_,						
M	W19-15	7-Dec-10	4	< 0.5	< 0.5	< 0.5	< 1.5	< 0.99				
		14-Mar-11	1	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95	< 1.0			
		24-May-11	2	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95				
		16-Aug-11	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95				
M\	W19-16											
		7-Dec-10 14-Mar-11	<u>4</u> 1	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	< 0.96 < 0.95	< 1.0			
		24-May-11	2	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95	× 1.0			
		16-Aug-11	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.96				
M	W19-17			-			1					
		8-Dec-10	4	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95				
		14-Mar-11	1	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95	< 1.0			
		24-May-11 16-Aug-11	3	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	< 0.95 < 0.98	< 1.0			
	MW-8	1.0 00		1	ļ <u> </u>							
		1-Sep-89 1-Jan-90	<u>3</u>	+	+		+	+	1			
		23-Jul-08	3	< 1.0	< 1.0	< 5.0	15	< 1.0				
		29-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	J 2.0				
		14-Jan-09 8-Apr-09	1 2 <sup>(5)</sup>	< 0.9 < 0.9	< 0.8	< 0.8	< 0.9	8.0 J 3.0				
		21-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	J 2.0				
		11-Nov-09	<u>4</u> 1	< 0.9	< 0.8	< 0.8	< 0.9	J 3.0	-			
		15-Feb-10 20-Apr-10	2	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	3.9 16				
		24-Aug-10	3	< 0.5	< 0.5	< 0.5	4.2	4.8				
		7-Dec-10 14-Mar-11	<u>4</u> 1	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	1.7 3.5				
				< 0.5	< 0.5	< 0.5	< 1.5 < 1.5	3.5 43.0				
		24-May-11	2						. —			
		24-May-11 16-Aug-11	3	< 0.5	< 0.5	< 0.5	< 1.5	1.9				
	IW-25R				< 0.5	< 0.5	< 1.5	1.9				
M	IW-25R		2		< 0.5	< 0.5	< 1.5	1.9				
М	IW-25R	16-Aug-11	3	< 0.5								

	ANALYTICAL PARAMETERS										
MONITORING WELLS	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-	1,3-Butadiene			
					_		phthalate (DEHP)				
UNITS SOLUBILITY LIMIT			ug/l 1,700,000	ug/l 152,000	ug/l 515,000	ug/l 175,000	ug/l 334	ug/l			
PRACTICAL QUANTITAT			1	2	1	2	3				
		DARDS (NJGWQS) CLASS IIA	0.2	700	600	1,000	2				
HIGHER OF NJGWQS AN	8-Feb-07	1	< 1.0	700 < 1.0	600 < 5.0	1,000	3 < 1.0				
	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0				
	26-Jun-07	2 <sup>duplicate</sup>	< 1.0	< 1.0	< 5.0	< 3.0	1.6				
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0				
Dilution factor for DEHP is 1.3	6-Dec-07 19-Feb-08	<u>4</u> 1	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.3 < 1.0				
Dilution for DEHP 1.29	6-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.3				
	22-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0				
	29-Oct-08 15-Jan-09	<u>4</u> 1	< 0.2 < 0.9	< 0.2 < 0.8	J 0.3 < 0.8	< 0.6 < 0.9	< 1.0 < 0.9				
	7-Apr-09	2 <sup>(5)</sup>	< 0.9	< 0.8	< 0.8	< 0.9	J 1.0				
	22-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	< 0.9				
	11-Nov-09	4	< 0.9	< 0.8 < 0.5	< 0.8	< 0.9 < 1.5	J 1.0				
	15-Feb-10 20-Apr-10	1 2	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	< 1.5	< 1.0 < 0.98				
	25-Aug-10	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.99				
	9-Dec-10	4	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95				
	14-Mar-11 24-May-11	1 2	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	< 0.95 <b>44.00</b>				
	16-Aug-11	3	< 0.5	< 0.5	< 0.5	< 1.5	1.80				
BAIA/ 07-			<u> </u>								
MW-27s	22-Jun-06	2	J 0.6	3.7	3.9	14	J <b>3.0</b>				
	11-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	J 2.0				
	7-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	J 1.0				
	7-Feb-07 26-Jun-07	1 2	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.0 < 1.0				
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	1.2				
Dilution factor for DEHP is 1.4	4-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.4				
Dilution factor for DEHP is 1.18 Dilution factor for DEHP is 1.18	19-Feb-08	1 2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.2				
Dilution factor for DEHP is 1.18	7-May-08 23-Jul-08	3	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.2 < 1.0				
	30-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0				
	14-Jan-09	1	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0				
	8-Apr-09 21-Jul-09	<u>2</u> 3	< 0.9	< 0.8 < 0.8	< 0.8	J 1.0 < 0.9	< 1.0 < 1.0				
	10-Nov-09	4	< 0.9	< 0.8	< 0.8	< 0.9	< 0.9				
	14-Feb-10	1	< 0.5	< 0.5	< 0.5	< 1.5	< 1.0				
	20-Apr-10 24-Aug-10	2 3	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	< 1.0 < 0.99				
	8-Dec-10	4	< 0.5	< 0.5	< 0.5	< 1.5	< 0.98				
	14-Mar-11	1	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95	< 1.0			
	25-May-11 16-Aug-11	2 3	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	24.00 2.40				
	10-Aug-11	<u> </u>	< 0.5	< 0.5	V 0.5	V 1.5	2.40				
MW-28s											
Dilution factor for BTEX 5 Dilution factor for Xylene is 5, DEHP is 10	21-Jun-06	<u>2</u> 3	J <b>1.6</b> J 0.2	560.0 210.0	< 1.0 < 0.2	<b>1,400</b> 450	100 570				
Dilution factor for Xylene is 5, DEHP is 10	13-Sep-06 13-Sep-06	3 duplicate	J 0.2	220.0	< 0.2	470	550				
Dilution factor for DEHP 10	7-Nov-06	4	< 0.2	92.0	< 0.2	180	250				
Dilution factor for DEHP is 20	7-Feb-07	1	< 1.0	70.0	< 5.0	150	260				
Dilution factor for DEHP is 20	7-Feb-07	1 duplicate 2	< 1.0	58.0	< 5.0	130 56	250 28				
Dilution factor for DEHP is 5	27-Jun-07 12-Sep-07	3	< 1.0 < 1.0	30.0 17.0	< 5.0 < 5.0	42	49				
Dilution for DEHP is 1.2	6-Dec-07	4	< 1.0	32.0	< 5.0	96	14				
Dilution for DEHP is 20 Dilution for DEHP is 11.1	20-Feb-08 7-May-08	<u> </u>	< 1.0 < 1.0	14.0 2.7	< 5.0 < 5.0	36 6.6	39 160				
Dilution for DEHP is 11.1 Dilution for DEHP is 20	7-May-08 23-Jul-08	3	< 1.0	37	< 5.0 < 5.0	93	420				
Dilution for DEHP is 10	23-Jul-08	3 <sup>duplicate</sup>	< 1.0	41	< 5.0	100	290				
Dilution factor for DEHP 10		4	< 0.2	4.3	< 0.2	15	300				
Dilution factor for DEHP 10 Dilution factor for DEHP 10	15-Jan-09 8-Apr-09	<u> </u>	< 0.9 < 0.9	17 39	< 0.8	64 100	140 200				
Dilution factor for DEHP 10	22-Jul-09	3	< 0.9	18	< 0.8	53	180				
Dilution factor for DEHP 5	12-Nov-09	4	< 0.9	10	< 0.8	67	130				
Dilution factor for DEHP 2	16-Feb-10 16-Feb-10	1 1 duplicate	< 0.5	8.9 8.8	< 0.5 < 0.5	27 27	65 100				
Dilution factor for DEHP 2 Dilution factor for DEHP 5	16-Feb-10 21-Apr-10	2	< 0.5	8.8 22	< 0.5	71	240				
	25-Aug-10	3	< 0.5	5.7	< 0.5	12	39				
	25-Aug-10	3 <sup>duplicate</sup>	< 0.5	< 0.5	< 0.5	< 1.5	29				
	8-Dec-10 15-Mar-11	<u>4</u> 1	0.6 < 0.5	18.0	< 0.5 < 0.5	50.0 6.8	92 51				
	15-Mar-11	1 duplicate	< 0.5	< 0.5	< 0.5	5.8	52				
	25-May-11	2	< 0.5	9.1	< 0.5	8.9	170				
Dilution for DEHP is 20	16-Aug-11	3	< 0.5	1.4	0.82	2.7	650				
MW-28i			1	+			<del> </del>				
Dilution factor for BTEX 5	22-Jun-06	2	< 1.0	480.0	< 1.0	1,300	270				
Dilution factor for Xylene and DEHP is 5	13-Sep-06	3	< 0.2	72.0	J 0.6	520	180				
Dilution factor for DEHP is 10	7-Nov-06 7-Feb-07	<u>4</u> 1	< 0.2 < 1.0	10.0	< 0.2 < 5.0	14 < 3.0	90 76				
Distribit factor for DETIP IS 10	27-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	3.9				
<b>_</b>	12-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	21				
Dilution for DEHP is 1.3 Dilution for DEHP is 5	6-Dec-07 20-Feb-08	<u>4</u> 1	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	1.4 31	<b> </b>			
Dilution for DEHP is 1.11	7-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	28	<b>———</b>			

	ANALYTICAL PARAMETERS										
MONITORING WELLS	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl- phthalate (DEHP)	1,3-Butadiene			
UNITS			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l			
SOLUBILITY LIMIT			1,700,000	152,000	515,000	175,000	334	_			
PRACTICAL QUANTITAT		DARDS (NJGWQS) CLASS IIA	0.2	2 700	600	1,000	3 2				
HIGHER OF NJGWQS AN		DANDO (NOOWQO) CEAGO IIA	1	700	600	1,000	3				
	23-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	49				
	29-Oct-08 15-Jan-09	4 1	< 0.2 < 0.9	< 0.2 < 0.8	< 0.2	< 0.6 < 0.9	110 61				
	15-Jan-09	1 duplicate	< 0.9	< 0.8	< 0.8	< 0.9	41				
Dilution factor for DEHP 10	8-Apr-09	2 <sup>(5)</sup>	< 0.9	< 0.8	< 0.8	< 0.9	240				
	22-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	19				
	12-Nov-09	4 duplicate	< 0.9	< 0.8	< 0.8	< 0.9	15				
	12-Nov-09 16-Feb-10	1	< 0.9 < 0.5	< 0.8 < 0.5	< 0.8 < 0.5	< 0.9 < 1.5	11 12				
	21-Apr-10	2	< 0.5	2.7	< 0.5	9.4	26				
	25-Aug-10	<u>3</u> 4	< 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	11 25				
	8-Dec-10 14-Mar-11	1	0.8 < 0.5	< 0.5	< 0.5	< 1.5	28				
	25-May-11	2	< 0.5	< 0.5	< 0.5	< 1.5	83				
	16-Aug-11	3	< 0.5	< 0.5	< 0.5	< 1.5	95				
MW-29s			<u> </u>				<u> </u>	<u> </u>			
	22-Jun-06	2	< 0.2	J 0.2	< 0.2	J 0.6	J 1.0				
	14-Sep-06 9-Nov-06	<u>3</u> 4	< 0.2 < 0.2	< 0.2 < 0.2	< 0.2 < 0.2	< 0.6 < 0.6	J 1.0				
	7-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0				
	27-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0				
Deillution for DEHP 1.2	11-Sep-07 5-Dec-07	<u>3</u> 4	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.0 < 1.2				
Delilution for DERP 1.2	19-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0				
Dilution factor for DEHP 1.05 [DUP-02]	19-Feb-08	1 duplicate	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0				
Dilution factor for DEHP 1.18	7-May-08 22-Jul-08	2	< 1.0	< 1.0 < 1.0	< 5.0	< 3.0	< 1.2				
	22-Jul-08 29-Oct-08	<u>3</u> 4	< 1.0 < 0.2	< 0.2	< 5.0 J 0.3	< 3.0 < 0.6	< 1.0 < 1.0				
	29-Oct-08	4 <sup>duplicate</sup>	< 0.2	< 0.2	J 0.2	< 0.6	< 0.9				
	15-Jan-09	1	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0				
	7-Apr-09	2 <sup>(4)</sup> 3	< 0.9	< 0.8	< 0.8	< 0.9 < 0.9	< 1.0				
	21-Jul-09 11-Nov-09	4	< 0.9	< 0.8 < 0.8	< 0.8	< 0.9	< 1.0 < 1.0				
	15-Feb-10	1	< 0.5	< 0.5	< 0.5	< 1.5	< 1.0				
	20-Apr-10 24-Aug-10	<u>2</u> 3	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	< 1.0 < 0.95				
	7-Dec-10	4	< 0.5	< 0.5	< 0.5	< 1.5	< 0.98				
	14-Mar-11	1	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95				
	24-May-11 16-Aug-11	<u>2</u> 3	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	<b>45.00</b> < 0.96				
	10-Aug-11	3	< 0.5	< 0.5	V 0.5	V 1.5	< 0.90				
MW-30s											
Dilution factor for BTEX 20, DEHP is 500	21-Jun-06 13-Sep-06	<u>2</u> 3	< 1.0 < 4.0	1,200 1,200	J 1.3 46.0	3,900 5,100	740 19,000				
Dilution factor for BTEX 5, DEHP is 100	9-Nov-06	4	< 1.0	540	< 1.0	2,600	2,500				
	7-Feb-07	1	FS	FS	FS	FS	FS				
Dilution factor for BTEX 5, DEHP is 2000 Dilution factor for DEHP is 50	26-Jun-07 12-Sep-07	<u>2</u> 3	<b>2.1</b> < 1.0	300 < 1.0	< 25 < 5.0	<b>1,200</b> < 3.0	13,000 880				
Dilution factor for DEHP is 200	12-Sep-07	3 <sup>duplicate</sup>	< 1.0	< 1.0	< 5.0	< 3.0	1,700				
Dilution factor for DEHP is12, BTEX is 5	6-Dec-07	4	1.5	34.0	110	260	200				
Dilution factor for DEHP is 111, BTEX is 5	20-Feb-08	1	< 5.0	110 100	< 25	480 460	3,800				
tion factor for Total Xylene is 5, DEHP is 1.25	8-May-08 22-Jul-08	<u>2</u> 3	< 1.0 < 1.0	14	< 5.0 < 5.0	86	9.6 80				
DEHP Dilution 5	29-Oct-08	4	< 0.2	80	J 0.2	290	180				
Dilution factor for DEHP is 50	15-Jan-09 8-Apr-09	1 2	FS < 0.9	FS 74	FS < 0.8	FS 340	FS 1,100				
Dilution factor for DEHP is 50  Dilution factor for DEHP is 10	8-Apr-09 22-Jul-09	3	< 0.9	8	< 0.8	340	550	<u> </u>			
Dilution factor for DEHP is 10	11-Nov-09	4	< 0.9	63	< 0.8	140	350				
Dilution factor for DEHP is 10	15-Feb-10 21-Apr-10	<u>1</u> 2	FS < 0.5	FS 5.4	FS < 0.5	FS 15	FS 480				
Dilution factor for DEHP is 10	21-Apr-10 21-Apr-10	2 <sup>duplicate</sup>	< 0.5	6	< 0.5	22	460				
Dilution factor for DEHP is 2	24-Aug-10	3	< 0.5	12	< 0.5	19	140				
Dilution factor for DEHP is 5	8-Dec-10	4 A <sup>duplicate</sup>	< 0.5	16	< 0.5	38	180				
Dilution factor for DEHP is 5	8-Dec-10 16-Mar-11	4 duplicate 1	< 0.5 < 0.5	15 10	< 0.5 < 0.5	37 39	250 390				
	24-May-11	2	< 0.5	17	< 0.5	26	910				
Dilution factor for DEHP is 10	16-Aug-11	3	< 0.5	2.1	< 0.5	< 1.5	940				
Dilution factor for DEHP is 10	16-Aug-11	3 <sup>duplicate</sup>	< 0.5	2.8	< 0.5	< 1.5	1,100				
MW-30i			<del> </del>	1							
	21-Jun-06	2	J 0.3	38	1.4	170	J 2.0				
	13-Sep-06	3	< 0.2	1.5	< 0.2	4.9	19				
	8-Nov-06	4 4 <sup>duplicate</sup>	< 0.2	J 0.2	< 0.2	< 0.6	J 1.0				
	8-Nov-06 7-Feb-07	1	< 0.2 FS	J 0.2 FS	< 0.2 FS	< 0.6 FS	< 1.0 FS				
	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0				
	12-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	1.3				
Dilution factor for DEHP 1.2 Dilution factor for DEHP 1.05	6-Dec-07 19-Feb-08	<u>4</u> 1	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.2 < 1.0				
Dilution factor for DEHP 1.05 Dilution factor for DEHP 1.05	19-Feb-08 7-May-08	2	< 1.0 < 1.0	< 1.0	< 5.0 < 5.0	< 3.0	< 1.0 < 1.0				
Dilution factor for DEHP 1.18	7-May-08	2 <sup>duplicate</sup>	< 1.0	< 1.0	< 5.0	< 3.0	< 1.2				
	22-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0				
	29-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	J <b>2.0</b>	l			

			ANALYTICAL	PARAMETERS				
MONITORING WELLS	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl- phthalate (DEHP)	1,3-Butadiene
UNITS			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
SOLUBILITY LIMIT			1,700,000	152,000	515,000	175,000	334	
PRACTICAL QUANTITATI	ON LIMIT [PQL]	4.555 (M.16)M66) 61 466 H4	1	2	1	2	3	
NEW JERSEY GROUNDW HIGHER OF NJGWQS AN		ARDS (NJGWQS) CLASS IIA	0.2	700 700	600 600	1,000 1,000	2	
THOTER OF HOOWGO AN	15-Jan-09	1	FS	FS	FS	FS	FS	
	8-Apr-09	2	< 0.9	< 0.8	< 0.8	< 0.9	J 3	
	23-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	J 2	
	23-Jul-09 11-Nov-09	3 <sup>duplicate</sup>	< 0.9	< 0.8	< 0.8	< 0.9	J 3	
	11-Nov-09 15-Feb-10	<u>4</u> 1	< 0.9 FS	< 0.8 FS	< 0.8 FS	< 0.9 FS	J 1 FS	
	21-Apr-10	2	< 0.5	1.9	< 0.5	2.0	1.7	
	24-Aug-10	3	< 0.5	< 0.5	< 0.5	< 1.5	1.7	
	7-Dec-10 16-Mar-11	<u>4</u> 1	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	< 1.0 2.0	
	25-May-11	2	< 0.5	< 0.5	< 0.5	< 1.5	39.0	
	25-May-11	2 <sup>duplicate</sup>	< 0.5	< 0.5	< 0.5	< 1.5	15.0	
	16-Aug-11	3	< 0.5	< 0.5	< 0.5	< 1.5	1.5	
MIN OO J								
MW-30d	21-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	J 3.0	
	14-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	J 9.0	
	8-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 0.9	
	7-Feb-07	1	FS	FS	FS	FS	FS	
	26-Jun-07 12-Sep-07	<u>2</u> 3	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.0 < 1.0	
Dilution factor for DEHP 1.1	4-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0	
Dilution factor for DEHP 1.1	4-Dec-07	4 <sup>duplicate</sup>	< 1.0	< 1.0	7.7	< 3.0	< 1.1	
Dilution factor for DEHP 1.05	19-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0	
Dilution factor for DEHP 1.05	7-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0	
	22-Jul-08 29-Oct-08	<u>3</u> 4	< 1.0 < 0.2	< 1.0 < 0.2	< 5.0 < 0.2	< 3.0 < 0.6	< 1.0 < 0.9	
	15-Jan-09	1	FS	FS	FS	FS	FS	
	8-Apr-09	2	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0	
	21-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	< 0.9	
	11-Nov-09 15-Feb-10	<u>4</u> 1	< 0.9 < 0.5	< 0.8 < 0.5	< 0.8 < 0.5	< 0.9 < 1.5	< 0.9 < 1.0	
	21-Apr-10	2	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95	
	24-Aug-10	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95	
	7-Dec-10	4	< 0.5	< 0.5	< 0.5	< 1.5	< 1.00	
	16-Mar-11 25-May-11	1 2	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	< 0.95 <b>6.00</b>	
	16-Aug-11	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.99	
	,							
MW-31s	0.14 00		500		0.500	07.000	0.10	
Dilution factor for BTEX 500, DEHP 83.5  Dilution factor for BTEX 500, DEHP 83.5  Dilution factor for BTEX 500, DEHP 83.5	8-May-08 23-Jul-08	<u>2</u> 3	< 500 < 20	5,500 9,000	< 2,500 < 100	27,000 49,000	310 16,000	
Dilution factor for BTEX 50, DEHP 10	30-Oct-08	4	< 10	7,900	< 100	40,000	760	
10, Ethylbenzene and Xylenes 100, DEHP 50	14-Jan-09	1	< 0.9	4,400	J 46	25,000	3,100	
factor for BTE 10 and Xylenes 100, DEHP 10	9-Apr-09	2	< 9	2,300	< 8	9,600	690	
e 5, Ethylbenzene and Xylene 50, DEHP 500 ylbenzene & Toluene 5, Xylene 50, DEHP 10	23-Jul-09 12-Nov-09	<u>3</u>	J <b>5</b>	4,500 1,300	J 10 J 5	22,000 7,400	23,000 340	
uene 5, Ethylbenzene & Xylene 50, DEHP 25	16-Feb-10	1	4.4	4,000	11	17,000	1,000	
tor for Ethylbenzene & Xylene 250, DEHP 25	22-Apr-10	2	7.6	8,700	16	40,000	190	
tor for Ethylbenzene & Xylene 100, DEHP 10	25-Aug-10	3	3.6	760	8.4	12,000	440	
for Ethylbenzene and Xylene is 50, DEHP 10 tor for Ethylbenzene & Xylene 100, DEHP 25	9-Dec-10 17-Mar-11	<u>4</u> 1	1.0 <b>4.3</b>	730 4,700	2.4 14.0	4,100 21,000	1,100 330	
or for Ethylbenzene & Xylene 100, DEHP 250	26-May-11	2	3.2	3,900	12.0	19,000	19,000	
or for Ethylbenzene & Xylene 100, DEHP 250	16-Aug-11	3	2.3	2,600	9.9	13,000	1,700	
MM 20-								
MW-32s Dilution factor for BTEX 200, DEHP 121000	8-May-08	2	< 200	16,000	< 1,000	75,000	370,000	
D. Ethylbenzene and Xylenes 250, DEHP 200	23-Jul-08	3	< 50	8,600	< 250	43,000	7,900	
BTE 5, Xylenes 10, DEHP 100	30-Oct-08	4	J 1.1	1,200	J 1.7	6,900	4,600	
Dilution for BTE 50, Xylene 500, DEHP 500 zene 20, Toluene & Xylenes 200, DEHP 100	15-Jan-09 8-Apr-09	1 2	< 45 < 18	8,900 8,200	< 40 < 16	40,000 50,000	12,000 8,600	
ilution factor for BTE 50, Xylene & DEHP 100	23-Jul-09	3	< 45	7,400	< 40	43,000	5,400	
n factor for BTE 20, Xylene 200 & DEHP 100	12-Nov-09	4	< 18	3,800	< 16	29,000	2,300	
ne 5, Ethylbenzene & Xylene 50, DEHP 1000	16-Feb-10	1	7.7	7,400	10	36,000	130,000	
or Ethylbenzene and Xylenes 100, DEHP 40 r Ethylbenzene and Xylenes 100, DEHP 100	22-Apr-10 25-Aug-10	<u>2</u> 3	6.7 6.9	6,200 4,500	14 4.5	31,000 20,000	2,800 6,100	
or Ethylbenzene and Xylenes 100, DEHP 100 or Ethylbenzene and Xylene is 50, DEHP 200	25-Aug-10 9-Dec-10	4	0.9	1,100	0.5	5,900	15,000	
or Ethylbenzene and Xylene is 100, DEHP 50	17-Mar-11	1	3.3	3,600	0.55	11,000	2,000	
Ethylbenzene and Xylene is 100, DEHP 250	25-May-11	2	3.4	3,200	1.30	11,000	17,000	
Ethylbenzene and Xylene is 100, DEHP 250	16-Aug-11	3	2.1	1,600	0.78	4,600	4,200	
MW-33s			1	1				
Dilution factor for DEHP 1.25	8-May-08	2	4	6.6	< 5.0	27	16	
	23-Jul-08	3	1.8	< 1.0	< 5.0	3.3	21	
Dilution factor for DEHP 50 Dilution factor for DEHP 200	30-Oct-08 15-Jan-09	<u>4</u> 1	J 0.4 < 0.9	J 0.6 < 0.8	J 0.3 < 0.8	< 3.0 < 0.9	5,500 3,400	
Dilution factor for DEHP 200 Dilution factor for DEHP 50	9-Apr-09	2	< 0.9	< 0.8	< 0.8	< 0.9	1,100	
Dilution factor for DEHP 500	23-Jul-09	3	< 0.9	< 0.8	< 0.8	J 2.0	81,000	
Dilution factor for DEHP 20	12-Nov-09	4	< 0.9	< 0.8	< 0.8	J 2.0	790	
Dilution factor for DEHP 250 Dilution factor for DEHP 20	16-Feb-10 22-Apr-10	1 2	< 0.5 < 0.5	0.5 1.5	< 0.5 < 0.5	5.1 10	21,000 910	
Dilution factor for DEHP 20 Dilution factor for DEHP 10	22-Apr-10 25-Aug-10	3	< 0.5	< 0.5	< 0.5	5.9	560	
Dilution factor for DEHP is 100	9-Dec-10	4	< 0.5	< 0.5	< 0.5	< 1.5	9,700	
Dit ::	17-Mar-11	1	< 0.5	2.5	< 0.5	14.0	280	
Dilution factor for DEHP is 250	26-May-11	<u>2</u> 3	< 0.5 < 0.5	7.5 < 0.5	< 0.5	37.0	2,300	
Dilution factor for DEHP is 250	16-Aug-11	3	< 0.0	< U.5	< 0.5	< 1.5	2,500	

	ANALYTICAL PARAMETERS									
MONITORING WELLS	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-	1,3-Butadiene		
							phthalate (DEHP)			
UNITS SOLUBILITY LIMIT			ug/l 1,700,000	ug/l 152,000	ug/l 515,000	ug/l 175,000	ug/l 334	ug/l		
PRACTICAL QUANTITAT			1	2	1	2	3			
NEW JERSEY GROUNDY HIGHER OF NJGWQS AN		DARDS (NJGWQS) CLASS IIA	0.2	700 700	600 600	1,000 1,000	2 3			
	DFQL		'	700	600	1,000	3			
MW-34s Ethylbenzene and Total Xylenes 5, DEHP 1.33	6-May-08	2	1.3	230	< 5.0	1,200	3.0			
Dilution factor for BTEX 20	23-Jul-08	3	< 20	470	< 100.0	2,300	1.6			
	30-Oct-08	4	< 0.2	2	< 0.2	180	7			
Dilution factor for BTE 10, Xylene 100 10. Ethylbenzene & Xylenes 100, DEHP 100	15-Jan-09 8-Apr-09	1 2	< 9 < 9	2,700 3,600	J 16.0 J 18.0	13,000 18,000	7 J 5			
tene & Toluene 2, Ethylbenzene & Xylenes 20	23-Jul-09	3	< 2	1,300	J 5.0	6,700	9			
Ethylbenzene & Xylenes 10  lution facor for Ethylbenzene and Xylene is 20	12-Nov-09 16-Feb-10	<u>4</u> 1	< 0.9 1.5	440 680	< 0.8	1,000 2,300	J 4 13			
tion factor for Ethylbenzene and Xylene is 100	22-Apr-10	2	5.6	3,400	44	14,000	8.1			
tion factor for Ethylbenzene and Xylene is 100	25-Aug-10	3	4.7	240	13	1,200	22.0			
	9-Dec-10 17-Mar-11	4 1	< 0.5 < 0.5	78	< 0.50 < 0.50	6 280	8.0 7.7			
ution factor for Ethylbenzene and Xylene is 10	26-May-11	2	0.7	380	2.00	1,100	72.0			
	16-Aug-11	3	< 0.5	19	< 0.50	12	35.0			
MW-35s										
thylbenzene and Total Xylenes 500, DEHP 57 10, Ethylbenzene and Xylenes 250, DEHP 20	6-May-08 23-Jul-08	2 3	1.3 16	230	< 5.0	1,200 67,000	490 530			
e 20, Toluene 20, Ethlbenzene 100, DEHP 10	23-Jul-08 30-Oct-08	4	J 9.6	12,000 8,800	260.0 34.0	57,000	460			
ene 20, Ethylbenzene, Xylene and DEHP 200	15-Jan-09	1	< 18	12,000	J 36.0	88,000	3,500			
ene 20, Ethylbenzene& Xylene 200, DEHP 50 20, Ethylbenzene and Xylene 200, DEHP 500	8-Apr-09 23-Jul-09	<u>2</u> 3	< 18 < 18	13,000 14,000	J 40.0 J 36.0	100,000 92,000	1,800 20,000			
enzene & Toluene 50, Xylene and DEHP 500	12-Nov-09	4	< 45	8,900	< 40.0	69,000	3,000			
0, Ethylbenzene & Xylene 1000 and DEHP 25 for Ethylbenzene & Xylene 200, and DEHP 25	16-Feb-10 22-Apr-10	1 2	< 10	9,800 14,000	30.0 35	59,000 79,000	660 540			
MW-32S	16-Aug-11	3	2.1	1,600	1	4,600	4,200			
hylbenzene is 50, Xylene is 500, DEHP is 100	9-Dec-10	4	7.5	9,200	29	51,000	3,400			
is 200, xylene 200, bisethylhexylphthalate 25 1000, xylene 1000, bisethylhexylphthalate 250	17-Mar-11 26-May-11	1 2	5.8 2.3	16,000 10,000	30 14	83,000 57,000	570 15,000			
is 100, xylene 100, bisethylhexylphthalate 250	16-Aug-11	3	3.5	9,700	17	54,000	3,000			
Atmospheric Blank	13-Jan-05	1	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0			
	8-Apr-05 26-Jul-05	<u>2</u> 3	< 0.2 < 0.2	< 0.2 < 0.2	< 0.2 < 0.2	< 0.6 < 0.6	< 1.0 < 1.0			
	27-Oct-05	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0			
	28-Feb-06	1	< 0.2 < 0.2	< 0.2 < 0.2	< 0.2 < 0.2	< 0.6	< 1.0			
	20-Jun-06 12-Sep-06	<u>2</u> 3	< 0.2	< 0.2	< 0.2	< 0.6 < 0.6	< 1.0 < 1.0			
	7-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0			
	8-Feb-07 27-Jun-07	<u>1</u> 2	< 1.0 < 1.0	< 1.0 < 1.0	J 1.9 < 5.0	< 3.0 < 3.0	< 1.0 < 1.0			
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0			
	5-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0			
ATM-01 ATM-01. Dilution factor for DEHP 1.08	20-Feb-08 6-May-08	1 2	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.0 < 1.1			
	22-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0			
	28-Oct-08 14-Jan-09	<u>4</u> 1	< 0.2 < 0.9	< 0.2 < 0.8	< 0.2 < 0.8	< 0.6 < 0.9	< 1.0 < 1.0			
	8-Apr-09	2	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0			
	22-Jul-09	3 4	< 0.9	< 0.8	< 0.8	< 0.9 < 0.9	< 0.9 < 0.9	<del>-</del>		
	11-Nov-09 15-Feb-10	1	< 0.9	< 0.5	< 0.8	< 0.9 < 1.5	< 0.9 < 0.95			
	20-Apr-10	2	< 0.5	< 0.5	< 0.5	< 1.5	< 1.0			
	24-Aug-10 8-Dec-10	<u>3</u> 4	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	< 0.95 < 0.96			
	16-Mar-11	1	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95			
	25-May-11 16-Aug-11	<u>2</u> 3	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 0.5	< 1.5 < 1.5	< 0.95 < 0.96	<del>                                     </del>		
<u></u>		<del>-</del>	1							
Rinsate Blank	14-Jan-05	1	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0			
	9-Apr-05	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0			
	27-Jul-05 27-Oct-05	3 4	< 0.2	< 0.2 < 0.2	< 0.2 < 0.2	< 0.6 < 0.6	< 1.0 < 1.0	<del>-</del>		
	28-Feb-06	1	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0			
	21-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0			
	22-Jun-06 13-Sep-06	<u>2</u> 3	< 0.2	< 0.2 < 0.2	< 0.2 < 0.2	< 0.6 < 0.6	< 1.0 < 1.0			
	14-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0			
	9-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0			
	9-Nov-06 8-Feb-07	<u>4</u> 1	< 0.2 < 1.0	< 0.2 < 1.0	< 0.2 < 5.0	< 0.6 < 3.0	< 1.0 < 1.0			
	8-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0			
	27-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0			
	27-Jun-07 10-Sep-07	<u>2</u> 3	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.0 < 1.0			
	12-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0			
	12-Sep-07 6-Dec-07	3 4	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	1.1	<del>-</del>		
	6-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0			
RB-02	20-Feb-08	11	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0			
RB-03	20-Feb-08 5-May-08	1 2	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.0 < 1.0			
	, 00	-								

#### TABLE 2

#### DAYCO CORPORATION/L.E. CARPENTER SUPERFUND SITE Borough of Wharton, Morris County, New Jersey Groundwater Monitoring Data

	ANALYTICAL PARAMETERS								
MONITORING WELLS	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl- phthalate (DEHP)	1,3-Butadiene	
UNITS			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
SOLUBILITY LIMIT	1,700,000	152,000	515,000	175,000	334				
PRACTICAL QUANTITATION LIMIT [PQL] NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS) CLASS IIA			1	2	1	2	3		
HIGHER OF NJGWQS AN		DARDS (NJGWQS) CLASS IIA	0.2	700 700	600 600	1,000 1,000	2		
RB-02	23-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0		
RB-03	23-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0		
RB-02	30-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	< 0.9		
RB-03	30-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0		
RB-01 RB-02	15-Jan-09 15-Jan-09	<u> </u>	< 0.9	< 0.8	< 0.8	< 0.9 < 0.9	< 1.0 < 1.0		
RB-01	9-Apr-09	2	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0		
RB-02	9-Apr-09	2	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0		
RB-01	23-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	< 0.9		
RB-02	23-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	J 2.0		
RB-02 RB-02	12-Nov-09 16-Feb-10	<u>4</u> 1	< 0.9 < 0.5	< 0.8 < 0.5	< 0.8	< 0.9 < 1.5	< 1.0 < 1.0		
RB-02	21-Apr-10	2	< 0.5	< 0.5	< 0.5	< 1.5	< 1.0		
RB-02	25-Aug-10	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95		
RB-02	9-Dec-10	4	< 0.5	< 0.5	0.6	< 1.5	< 0.96		
RB-03 RB-01	9-Dec-10 17-Mar-11	<u>4</u> 1	< 0.5 < 0.5	< 0.5	0.7 < 0.5	< 1.5 < 1.5	<b>23.0</b> < 0.95		
RB-01 RB-02	17-Mar-11 17-Mar-11	1	< 0.5	< 0.5 < 0.5	< 0.5	< 1.5 < 1.5	< 0.95		
RB-03	17-Mar-11	1	< 0.5	< 0.5	< 0.5	< 1.5	< 0.98		
RB-01	25-May-11	2	< 0.5	< 0.5	< 0.5	< 1.5	< 1.00	_	
RB-02	25-May-11	2	< 0.5	< 0.5	< 0.5	< 1.5	< 1.00		
RB-03 RB-01	25-May-11 16-Aug-11	2 3	< 0.5 < 0.5	< 0.5 < 0.5	1.0	< 1.5 < 1.5	< 1.00 < 0.95		
RB-02	16-Aug-11	3	< 0.5	< 0.5	1.5	< 1.5	< 0.95		
RB-03	16-Aug-11	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95		
Trip Blank	40.1.05		0.0			0.0	N. A.		
	13-Jan-05 9-Apr-05	1 2	< 0.2	< 0.2 < 0.2	< 0.2	< 0.6 < 0.6	NA NA		
	27-Jul-05	3	< 0.2	< 0.2	< 0.2	< 0.6	NA NA		
	27-Oct-05	4	< 0.2	< 0.2	< 0.2	< 0.6	NA		
	28-Feb-06	1	< 0.2	< 0.2	< 0.2	< 0.6	NA		
	20-Jun-06	2 3	< 0.2	< 0.2	< 0.2	< 0.6 < 0.6	NA NA		
	12-Sep-06 13-Sep-06	3	< 0.2	J 0.2 < 0.2	< 0.2	< 0.6	NA NA		
	6-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	NA		
	7-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	NA		
	7-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	NA		
	8-Feb-07	1	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	NA NA		
	27-Jun-07 26-Jun-07	2 2	< 1.0	< 1.0	< 5.0	< 3.0	NA NA		
	4-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	NA		
	5-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	NA		
	18-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	NA		
	5-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	NA NA		
	22-Jul-08 23-Jul-08	3	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	NA NA		
	29-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	NA NA		
	29-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	NA		
	15-Jan-09	1	< 0.9	< 0.8	< 0.8	< 0.9	NA		
	5-Apr-09	2 2	< 0.9 < 0.9	< 0.8	< 0.8	< 0.9 < 0.9	NA NA		
	7-Apr-09 21-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	NA NA		
	23-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	NA NA		
	8-Nov-09	4	< 0.9	< 0.8	< 0.8	< 0.9	NA		
	10-Nov-09	4	< 0.9	< 0.8	< 0.8	< 0.9	NA NA		
	11-Feb-10 11-Feb-10	<u> </u>	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	NA NA		
	14-Apr-10	2	< 0.5	< 0.5	< 0.5	< 1.5	NA NA		
	21-Apr-10	2	< 0.5	< 0.5	< 0.5	< 1.5	NA	_	
	7-Dec-10	4	< 0.5	< 0.5	< 0.5	< 1.5	NA NA		
	8-Dec-10 30-Nov-10	<u>4</u> 4	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	NA NA		
Trip Blank	16-Mar-11	1	< 0.5	< 0.5	< 0.5	< 1.5	NA NA		
TB-02	17-Mar-11	1	< 0.5	< 0.5	< 0.5	< 1.5	NA NA		
TB-03	18-Mar-11	1	< 0.5	< 0.5	< 0.5	< 1.5	NA	_	
TB-01	24-May-11	2	< 0.5	< 0.5	< 0.5	< 1.5	NA NA		
TB-02 TB-03	25-May-11 26-May-11	2 2	< 0.5 < 0.5	< 0.5 < 0.5	3.2 < 0.5	< 1.5 < 1.5	NA NA		
16-03	16-Aug-11	3	< 0.5	< 0.5	< 0.5	< 1.5	NA NA		
	16-Aug-11	3	< 0.5	< 0.5	1.3	< 1.5	NA		
	16-Aug-11	3	< 0.5	< 0.5	< 0.5	< 1.5	NA		

#### LEGEND

ug/L = micrograms per liter
NJGWQS = New Jersey Groundwater Quality Standards
ROD: Record of Decision NA = Not Applicable
FS = Sample Frozen in Transit

#### NOTES

- (1) Low flow sampling initiated 1st quarter 2002
  (2) GEI series wells are piezometers installed by Weston
  (3) GEI series wells, MW-19-3, and MW-19-4 are not sampled under revised groundwater monitoring program effective 1Q05.
  (4) Recovery of initial DEHP analysis was above QC limits in the LCS. Sample was re-extracted and DEHP was again above the QC limits in the LCS/LCSD. However, DEHP was not detected in the re-analysis of the sample.

#### TABLE 2

#### DAYCO CORPORATION/L.E. CARPENTER SUPERFUND SITE

Borough of Wharton, Morris County, New Jersey Groundwater Monitoring Data

MONITORING WELLS	ANALYTICAL PARAMETERS							
	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl- phthalate (DEHP)	1,3-Butadiene
UNITS			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
SOLUBILITY LIMIT			1,700,000	152,000	515,000	175,000	334	
PRACTICAL QUANTITATION LIMIT [PQL]			1	2	1	2	3	
NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS) CLASS IIA			0.2	700	600	1,000	2	
HIGHER OF NJGWQS AND PQL			1	700	600	1.000	3	

NS = Not Sampled ND: No Detection

duplicate = Duplicate sample

The data reported here is from the re-analysis of the sample.

(5) Recovery of initial DEHP analysis was above QC limits in the LCS. Sample was re-extracted and DEHP was again above the QC limits in the LCS/LCSD. Comparable data was observed beween the two extractions.

= Duplicate sample

Concentration exceeds NJGWQS

1.2

The data reported here is from the initial extraction of the sample.

B: Analyte also detected in blank

J: Estimated value. Value is greater than or equal to the Method Detection Limit (MDL)

and less than the Limit of Quantitation (LOQ)

	Sampling	Heterotrophic	TCC	TDE	Nitrate	Ammonia	Phosphorus	Sulfate <sup>(1)</sup>	Mathana	Dissolved
Well ID	Event	Plate Count	TSS	TDS	Nitrogen	Nitrogen	(total)		Methane	Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY STANDAR	DS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005
MW-19	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	80	30	589	ND	ND	0.054	3.6 J	150	NS
	3Q04	630	30.9	553	ND	ND	0.12	1.7 J	230	NS
	1Q05	350	17.2	347	0.22	ND	ND ND	7.4	230	NS NC
	2Q05 <sup>L</sup> 2Q05 <sup>U</sup>	390 1,400	10.8 J 15	413 455	2.8	ND ND	ND ND	33.3 30	3.0 J 2.0 J	NS NS
	3Q05	3	67	1,070	0	1.3	ND ND	6	33	NS
	4Q05	120	23	620	1	0.88	ND	37	19	NS
	1Q06	25	36	559	ND	ND	ND	3.3 J	140	NS
	2Q06	56	44	460	ND	0.43 J	ND	3.2 J	95	ND
Dilution factor for Methane 5	3Q06 4Q06	60 20	13 16	435 411	ND ND	0.43 J ND	ND 0	5 2.9 J	310 1,700	ND ND
Dilution factor for Methane 100	1Q07	140	7	340	ND	ND	ND	ND	540	ND
	2Q07	180	20	1,100	ND	0.62	ND	ND	380	ND
	3Q07	1,200	23	710	ND	0.76	0	ND	300	ND
	4Q07	FS	30	500	ND	0.64	0	ND	680	ND
	1Q08	150	3.6	190	2	ND 0.50	ND	25	ND	ND
Dilution factor for Dissolved Lead 5	2Q08	1,900 740	26	1,200	ND ND	0.52	ND ND	ND ND	650 510	ND ND
Dilution for methane 50	3Q08 4Q08	120	6.2 8.0 J	820 662	ND	0.57 0.60	0.14	ND	510 4,000	ND
Dilution for methane 30	1Q09	13	25.2	356	ND	ND	ND	3.6 J	2,200	ND
Dilution for methane 50	2Q09	36	12.8	670	ND	ND	ND	2.4 J	4,800	ND
MW-19R	3Q09	25	11.2 J	353	ND	ND	ND	ND	5,300	ND
Dilution factor for Nitrate and Sulfate 5	4Q10	7200	22	880	ND	0.13	0.086	70	280	ND
Dilution factor for Nitrate and Sulfate 5	1Q11	290	ND	1000	3.5	0.044	ND	81	ND	ND
Dilution factor for Nitrate and Sulfate 5	2Q11	31000	6	1200	1.5	0.06	ND	83	36	ND 0.040
Dilution factor for Nitrate and Sulfate 5	3Q11	180	8	780	0.63	0.05	ND	35	16	0.049
MW-19-5	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3Q04	180	14	942	0.06 J	ND	ND	15.7	2100	NS
	1Q05	380	3.6 J	174	0.49	ND	ND	15.8	34	NS
	2Q05 <sup>L</sup> 2Q05 <sup>U</sup>	3000 100	3.6 J 3.6 J	177 141	ND 0.43	ND ND	ND ND	12 8.7	380 ND	NS NS
	3Q05	69	6.8 J	463	ND	ND	ND	7.7	1700	NS
	4Q05	58	ND	144	0.38	ND	ND	12.8	3.8 J	NS
	1Q06	12	ND	287	0.97 J	ND	ND	11.2	290	NS
	2Q06	22	9.2 J	190	0.19	ND	ND	14.2	150	ND
Dilution factor for Methane 10	3Q06	30	ND	275 236	0.12	ND ND	ND ND	10.2	700	ND ND
Dilution factor for Methane 10	4Q06 1Q07	620 240	ND 7	340	0.1 ND	ND 0.51	ND ND	10.9 ND	640 500	ND 0.011
	2Q07	91	18	350	ND	0.13	ND	ND	570	ND
Dilution factor for Methane 4	3Q07	110	7.8	360	ND	ND	ND	ND	840	ND
	4Q07	FS	5.1	240	0.13	0.14	0.12	7.8	370	ND
	1Q08	380	1.9	120	0.16	ND	ND	7.2	ND	ND
	1Q08D 2Q08	170 560	1.8 3.3	120 370	0.15 0.15	ND ND	ND ND	7.2 13	ND 340	ND ND
Dilution factor for Methane 4	3Q08	100	16	560	ND	0.3	ND	ND	1,500	ND
	4Q08	46	ND	164	0.35	ND	ND	15.1	59	ND
Dilution factor for Methane 2	1Q09	33	ND	143	0.047 J	ND	ND	11	530	ND
Dilution factor for Methane 5	2Q09	27	ND	250	0.069 J	ND	ND	6.4	1,300	ND
Dilution factor for Methane 5	2Q09D 3Q09	110 25	ND 3.2 J	250 399	0.071 J ND	2.6 ND	ND ND	6.4 6.7	1,400 3400	ND ND
Dilution factor for Methane10	2008	20	J.2 J	333	IND	טויו	IAD	0.1	3400	IND
MW-19-5R	46.10	10		4.7.7					40	,
Dilution factor for Nitrate and Sulfate 5, Methane 250	4Q10	4800	42	600	ND 0.7	0.37	0.18	14	4600	ND
Dilution factor for Nitrate and Sulfate 5, Methane 100 Dilution factor for Nitrate and Sulfate 5, Methane 100	1Q11 2Q11	1100 280	9 27	630 840	0.7 0.36	0.32 0.16	0.071 0.12	82 58	5000 3700	ND ND
Dilution factor for Nitrate and Sulfate 5, Methane 100	3Q11	2100	36	770	ND	0.37	0.12	15	5700	ND
Dilution factor for Nitrate and Sulfate 5, Methane 100	3Q11D	3600	34	780	ND	0.44	0.23	18	6300	0.0032
MW.10.6	1004	NS	NS	NIC	NS	NIQ	NS	NS	NIC	NS
MW-19-6	1Q04 2Q04	NS 35	10.4 J	NS 1670	1.6	NS ND	NS ND	NS 37.3	NS 140	NS NS
	3Q04	110	18.8	1240	1.1	ND	0.062	38.3	140	NS
	1Q05	82	11.2 J	544	1.7	ND	ND	44	130	NS
	2Q05 <sup>L</sup>	23	18	1180	1.3	0.29 J	ND	33.5	44	NS
	2Q05 <sup>U</sup>	160	ND	1190	1	ND	ND	32.7	96	NS
	3Q05	90	40.8	1520	1.1	ND	ND ND	35	38	NS NC
	4Q05 1Q06	43 14	10.8 J 4.4 J	940 634	3.5 1.8	ND ND	ND ND	47.8 36.6	43 50	NS NS
	2Q06	14	ND	802	2	ND ND	ND ND	38.3	44	ND ND
	2Q06D	15	ND	790	2	ND	ND	37.7	45	ND
	3Q06	75	4.4 J	682	2.6	ND	ND	37.1	32	ND
	4Q06 1Q07	240 62	ND 5.3	574 490	2.3	ND ND	ND ND	38.3 34	31 21	ND ND
	1Q07 2Q07	62 70	5.3 8.7	1900	2.4	ND ND	ND ND	34 48	21	ND ND
	3Q07	100	2.6	820	2	ND	ND	40	68	ND
	4Q07	FS	3.2	710	2.3	ND	ND	36	87	ND
	1Q08	120	2.6	650	1.1	ND	ND	28	78	ND
	2Q08	22	2.9	1,200	1.9	ND	ND ND	32	27	ND
	3Q08 4Q08	140 31	6.2 ND	1,400 938	1.3 2.9	ND ND	ND ND	34 36.4	140 110	ND ND
	1Q09	8	ND	600	1.5	ND	ND	32.2	89	ND

W-H-ID	Sampling	Heterotrophic	TSS	TDS	Nitrate	Ammonia	Phosphorus	Sulfate <sup>(1)</sup>	Methane	Dissolved
Well ID	Event UNITS	Plate Count cfu/ml		mg/l	Nitrogen mg/l	Nitrogen mg/l	(total) mg/l	mg/l	ug/l	Lead mg/l
NEW IEDSEV COOLINDWATER OHALITY STANDAR			mg/l			_	_			
NEW JERSEY GROUNDWATER QUALITY STANDAR	DS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005
	3Q09	6	4.0 J	938	1.5	ND	ND	36.1	230	ND
MW-19-6R										
Dilution factor for Nitrate and Sulfate 5	4Q10	46000	9	620	1.5	0.012	ND	39	7.6	ND
Dilution factor for Nitrate and Sulfate 5 Dilution factor for Nitrate and Sulfate 5	1Q11 2Q11	260 980	- 8 - 5	1200 700	0.69 0.76	0.028	ND ND	38 34	60 3.8	ND ND
Dilution factor for Nitrate and Sulfate 5	3Q11	450	ND	740	1.3	0.018	ND	38	32	ND
MW-19-7	1Q04 2Q04	NS 110	NS 6.8 J	NS 2110	NS 0.21	NS ND	NS ND	NS 47.2	NS 5200	NS NS
	2Q04D	88	9.2 J	2040	0.21	0.15 J	ND	37.3	5400	NS
	3Q04	2000	4.4 J	1920	1.5	ND	ND	64.4	2400	NS
Dilution factor for Methane 250	1Q05 1Q05D	75 77	6.0 J 7.2 J	774 754	3.2 3.2	ND ND	ND ND	29.1 30.5	10000 11000	NS NS
Dilution factor for Methane 250	2Q05 <sup>L</sup>	32	54	472	ND	0.50 J	0.45	ND	13000	NS
	2Q05 <sup>U</sup>	41	48	481	ND	0.35 J	0.32	ND	10000	NS
	3Q05 <sup>L</sup>	17	45.6	1450	ND	ND	0.3	19.2	2900	NS
	3Q05 <sup>U</sup>	17	31.6	1280	0.22	0.29 J	0.1	25.7	1600	NS
Dilution factor for Methane 250	4Q05 1Q06	16 14	32 33.2	926 621	0.16 ND	0.5 ND	0.23	8.9 2.2 J	7700 10000	NS NS
	1Q06D	10	36.8	628	ND ND	ND	0.3	1.6 J	10000	NS
Dilution factor for Methane 200	2Q06	68	16.8	655	0.87	ND	0.16	12.9	11000	ND
Dilution factor for Methane 100	3Q06	79	9.2 J	799	2.1	ND	0.15	15.1	8600	ND
Dilution factor for Methane 100 Dilution factor for Methane 4	4Q06 1Q07	600 38	4.4 J 18	568 420	3.4 0.59	ND ND	ND 0.31	31.3 11	5600 1200	ND ND
Dilution factor for Methane 5	1Q07D	40	19	440	0.69	ND	0.31	12	1300	ND
	2Q07	130	4.4	610	0.25	ND	ND	12	530	ND
	3Q07 4Q07	890 FS	1.8 2.2	590 1200	0.39 2.6	ND 0.23	ND ND	16 21	120 170	ND ND
	1Q08	180	6.7	1600	3.2	ND	ND ND	24	300	ND
	2Q08	52	6.8	1100	0.24	0.12	ND	17	430	ND
	3Q08	340	15	560	ND	0.11	0.11	ND	400	ND
Dilution factor for Methane 5 Dilution factor for Methane 5	4Q08 4Q08D	270 110	3.25 ND	617 625	1.1 1.1	ND ND	ND ND	20 20.6	550 570	ND ND
Dilution factor for Wetharie 5	1Q09	34	4.0 J	2280	1.9	ND	ND	31.9	280	ND
	2Q09	98	23.6	3010	1.1	ND	ND	31.2	400	ND
	3Q09	250	5.2 J	1250	0.33	ND	ND	29	740	ND
MW-19-7R										
Dilution factor for Nitrate and Sulfate 5	4Q10	2800	10	560	2.1	0.2	0.23	35	35	ND
Dilution factor for Nitrate and Sulfate 5, Methane 100	1Q11	43	10	1300	ND 1.0	0.28	0.26	16	3300	ND
Dilution factor for Nitrate and Sulfate 5 Dilution factor for Nitrate and Sulfate 5	2Q11 2Q11D	110 180	20 21	990 990	1.9 1.9	0.17 0.19	0.29 0.29	11 10	22 1	ND ND
Dilution factor for Nitrate and Sulfate 5	3Q11	150	ND	670	3	0.14	0.31	36	1.1	ND
(2)										
MW-19-12 <sup>(3)</sup>	2Q06 3Q06	4,000 170	11.2 J 6.4 J	548 822	0.048 J	ND ND	ND ND	15.1 22.9	4.8 J 170	ND ND
Dilution factor for Methane 5	4Q06	2	4.4 J	716	0.36 0.22	ND	ND ND	21.3	130	ND
	4Q06D	2	ND	718	0.17	ND	ND	21.8	130	ND
	1Q07	4	5.5	400	0.56	0.12	ND	20	ND	ND
	2Q07 2Q07D	55 8	ND ND	240 270	0.93 0.93	ND ND	ND ND	13 13	ND ND	ND ND
	3Q07	73	ND	290	0.89	ND	ND	13	ND	ND
	4Q07	FS	3	260	0.9	ND	ND	11	ND	ND
	1Q08	9	ND 4.4	160 220	0.84	ND ND	ND ND	5.7 10	ND	ND
	2Q08 3Q08	ND 2	1.1	220	0.72	ND ND	ND ND	8.1	ND ND	ND ND
	4Q08	7	ND	269	0.79	ND	ND	16.6	ND	ND
	1Q09	4	ND	170	1.1	ND	ND	18.3	ND	ND
	2Q09 3Q09	320 18	5.2 J ND	334 261	0.94 0.9	ND 6.2	ND ND	18.5 13.3	ND ND	ND ND
	4Q09	ND	ND	263	0.81	ND	ND ND	15.3	ND	ND
Dilution factor for Nitrate an Sulfate is 5	4Q10	ND	ND	280	0.78	ND	0.057	15	ND	ND
Dilution factor for Nitrate an Sulfate is 5	1Q11	4	14 ND	280	1	0.028	ND	11	ND	ND
Dilution factor for Nitrate an Sulfate is 5 Dilution factor for Nitrate an Sulfate is 5	2Q11 3Q11	58 28	ND ND	250 400	1.1 1.2	0.032 0.013	ND ND	9.6 16	ND ND	ND ND
						2.3.0				
MW-19-13	/0						2.15			
Dilution factor for Nitrate and Sulfate 5 Dilution factor for Nitrate and Sulfate 5, Methand 50	4Q10 1Q11	5,600 9,000	110 130	560 470	ND 3.5	0.33 0.059	0.19 0.17	26 66	9,600 2,000	ND ND
Dilution factor for Nitrate and Sulfate 5, Methand 50  Dilution factor for Nitrate and Sulfate 5, Methane 100	2Q11	500	79	460	ND	0.039	0.17	44	4,300	ND
Dilution factor for Nitrate and Sulfate 5, Methane 100	3Q11	100	28	590	0.22	0.24	0.18	14	4,500	0.003
MM 40 44										
MW-19-14  Dilution factor for Nitrate and Sulfate 5, Methane 2	4Q10	31,000	24	870	0.32	0.16	ND	65	95	ND
Dilution factor for Nitrate and Sulfate 5, Methane 2  Dilution factor for Nitrate and Sulfate 5, Methane 2	4Q10D	27,000	24	970	0.32	0.014	ND ND	67	37	ND
Dilution factor for Nitrate and Sulfate 5	1Q11	320	ND	940	3.5	0.037	ND	93	ND	ND
Dilution factor for Nitrate and Sulfate 5	1Q11D	340	ND	920	3.4	0.042	ND	93	ND	ND
Dilution factor for Nitrate and Sulfate 5 Dilution factor for Nitrate and Sulfate 5, Methane 10	2Q11 3Q11	660 1300	9 15	1200 1000	2.1 0.4	0.053 0.061	ND 0.087	120 83	9.9 85	ND ND
Director for release and Sulfate 5, Methane 10	JULI	1300	13	1000	0.4	0.001	0.007	00	00	טאו
MW-19-15										
Dilution factor for Nitrate and Sulfatae 5	4Q10	88,000	21	510	0.55	0.13	ND ND	34	6 ND	ND ND
Dilution factor for Nitrate an Sulfate is 5 Dilution factor for Nitrate an Sulfate is 5	1Q11 2Q11	2,200 920	7	1400 1000	3.4 1.3	0.015 0.18	ND ND	54 90	ND 7.6	ND ND
Sindiformation for Militate and Sulfate 18.5	-4:	520				0.10				

	Sampling	Heterotrophic	I :		Nitrate	Ammonia	Phosphorus			Dissolved
Well ID	Event	Plate Count	TSS	TDS	Nitrogen	Nitrogen	(total)	Sulfate <sup>(1)</sup>	Methane	Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY STANDAR	DS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005
Dilution factor for Nitrate an Sulfate is 5	3Q11	3800	7	750	0.34	0.28	ND	24	12	ND
MW-19-16										
Dilution factor for Nitrate and Sulfatae 5	4Q10	2,100	9	980	0.7	0.016	ND	87	ND	ND
Dilution factor for Nitrate an Sulfate is 5	1Q11	740	ND	950	4.6	0.012	ND	100	ND	ND
Dilution factor for Nitrate an Sulfate is 5 Dilution factor for Nitrate an Sulfate is 5	2Q11 3Q11	1,000 44000	9 5	700 1100	ND 0.64	0.041	ND ND	27 81	1.2 2.5	ND ND
Dilution lavior for Nitrate an Sociate is 5	30011	44000	J	1100	0.04	0.00	NE	- 01	2.0	IND
MW-19-17	10.10	100			110					
Dilution factor for Nitrate and Sulfatae 5 Dilution factor for Nitrate an Sulfate is 5	4Q10 1Q11	130 64	9 14	380 1300	ND ND	0.73 0.91	0.13 0.092	4.8 13	980 33	ND ND
Dilution factor for Nitrate an Sulfate is 5	2Q11	180	5	970	0.27	0.31	ND	34	5	ND
Dilution factor for Nitrate an Sulfate is 5, Methane 100	3Q11	150	25	430	0.44	0.99	0.33	3.8	1400	ND
MW-8										
Dilution factor for Methane 10	3Q08	ND	66	300	ND	0.68	0.4	ND	3,000	ND
Dilution factor for Methane 20	4Q08	5,200	33.6	94.5	ND	0.35 J	ND	1.9 J	1,800	ND
Dilution factor for Methane 10	1Q09	51	56.8	270	ND	0.64	0.16	ND	2,600	ND
Dilution factor for Methane 50	2Q09	450	28	174	ND	ND	ND 0.13	ND 25 I	6,100	ND ND
Dilution factor for Methane 20	3Q09 4Q09	75 84	40 42.5	407 191	ND ND	ND 0.53 J	0.13 ND	2.5 J ND	2,400 5,600	ND ND
Dilution factor for Nitrate, and Ammonia 5,TDS & TSS 2	1Q10	46	62	280	0.35	0.44	0.24	ND	1,500	ND
Dilution factor for Nitrate and Methane 5, TDS 20	2Q10	240	36	ND	ND	0.24	0.24	ND	140	ND
Dilution factor for Nitrate 5, Methane 100	3Q10 4Q10	100 44	70 58	490 200	ND ND	0.61 0.27	0.29 0.15	7.7 ND	4,900 1,800	ND ND
Dilution for Methane 100, Nitrate and Sulfate 5 Dilution for Methane 50, Nitrate and Sulfate 5	4Q10 1Q11	44 57	31	500	0.089	0.27	0.15	ND ND	2,000	ND ND
Dilution for Methane 100, Nitrate and Sulfate 5	2Q11	890	34	520	ND	0.36	0.25	ND	290	ND
Dilution for Methane 100, Nitrate and Sulfate 5	3Q11	300	61	450	0.25	0.65	0.052	ND	3100	ND
MW-25R	2Q06	1,100	18.8	340	ND	0.24 J	ND	2.9 J	140	ND
WIVY-ZSK	3Q06	>5700	279	329	ND ND	0.24 J	0.14	3.3 J	30	ND ND
	4Q06	1,000	16.8	331	ND	ND	ND	6.2	25	ND
	1Q07	240	49	300	ND	0.12	ND	ND	29	ND
	2Q07 2Q07D	>5700 >5700	100 100	340 350	ND ND	0.15 0.11	ND ND	5.9	33 32	ND ND
	3Q07D	>5700	100	260	ND	ND	ND ND	6.4 14	ND	ND ND
	4Q07	FS	490	380	ND	0.41	0.43	10	ND	ND
	1Q08	>5700	140	360	ND	0.13	0.17	5.4	55	ND
	2Q08	>5700	200	330	ND	0.15	0.23	ND ND	130	ND
	3Q08 4Q08	ND >5700	68 ND	380 243	ND ND	0.14 ND	ND ND	16	12 3.5 J	ND ND
	1Q09	1,500	36.8	344	ND	ND	ND	36.5	57	ND
	2Q09	>5700	98.8	362	ND	ND	ND	9.4	7.6 J	ND
	3Q09	2,100	32.4	412	ND	ND 0.40 I	ND ND	8.5	100	ND ND
Dilution factor for Nitrate 5. TDS 2	4Q09 1Q10	1,600 580	160 95	198 430	ND 0.35	0.42 J 0.18	ND 0.14	12 6.9	30 41	ND ND
Dilution factor for Nitrate 5, TDS 20, TSS 4	2Q10	1,700	160	ND	ND	0.068	0.20	1.4	36	ND
Dilution factor for Nitrate 5	3Q10	3,800	65	650	ND	0.11	ND	30	1.5	ND
Dilution factor for Nitrate and Sulfate 5	4Q10 1Q11	920	22	350	ND	0.099	ND	13	8.5	ND
Dilution factor for Nitrate and Sulfate 5 Dilution factor for Nitrate and Sulfate 5, methane 10	2Q11	6,400 28,000	23 550	420 410	0.09 ND	0.16 0.22	ND 0.57	15 ND	36.0 93.0	ND ND
Dilution factor for Nitrate and Sulfate 5, TDS 6.6, TSS 6.6	3Q11	> 30000	1400	330	0.24	0.16	ND	4.8	19	0.100
	0000		=100		110			40.0		
MW-27s	2Q06 3Q06	NR >5700	5180 3850	630 798	ND ND	0.26 J ND	4.8 1.4	43.3 108	20 3.7 J	ND ND
	4Q06	>5700	166	753	0.16	ND	0.82	116	2.3 J	ND ND
	1Q07	>5700	580	650	ND	ND	0.19	91	ND	ND
	2Q07	>5700	48	640	ND	ND	3.5	97	ND	ND ND
	3Q07 4Q07	270 FS	150 260	630 620	ND 0.16	ND 0.45	0.12 ND	84 87	ND 22	ND ND
	1Q08	>5700	850	530	0.16	ND	0.74	78	ND	ND ND
	2Q08	>5700	770	490	0.19	ND	0.91	67	ND	ND
Dilution factor for Phosphorus 5	3Q08	560	1,400	620	ND 0.0	0.14 ND	17	61	11 ND	ND ND
	4Q08 1Q09	390 190	66.4 1,200	571 517	0.2 0.55	ND ND	.085 J 0.27	68.8 62.5	ND ND	ND 0.028
	2Q09	81	253	454	0.96	ND	ND	52.6	ND	ND
	3Q09	8	684	482	0.38	ND	ND	43.9	ND	ND
	4Q09	23	300	721	0.5	ND 0.1	ND 0.080	47.9	ND	ND ND
Dilution factor for Nitrate 5 Dilution factor for Nitrate 5, TDS 20	1Q10 2Q10	18 30	64 32	600 400	1.3 1.1	0.1 ND	0.089 ND	54 49	ND ND	ND ND
Dilution factor for Nitrate 5	3Q10	70	28	1100	0.29	ND	0.094	42	ND	ND
Dilution factor for Nitrate and Sulfate 5	4Q10	12	7	680	1.1	ND	ND	49	ND	ND
Dilution factor for Nitrate and Sulfate 5	1Q11	2,000	14	500	2.7	0.032	ND 0.002	38	ND 2.2	ND ND
Dilution factor for Nitrate and Sulfate 5 Dilution factor for Nitrate and Sulfate 5	2Q11 3Q11	3,500 60	47 41	500 570	2.3 1.4	0.036 ND	0.083 ND	36 35	3.2 ND	ND ND
MW-28s	2Q06	6	35.2	350	ND	0.35 J	0.25	2.6 J	3,100	ND
Dilution factor for Methane 200	3Q06 3Q06D	1,300 1,500	22 22	460	ND ND	0.26 J	0.37 0.37	ND 1.7J	3,200	ND ND
Dilution factor for Methane 200	3Q06D 4Q06	1,500	25	468 347	ND	ND ND	0.43	2.0 J	3,100 4,400	ND ND
Dilution factor for Methane 100				350	ND	ND	0.42	ND	170	ND
Dilution factor for Methane 100	1Q07	460	180	300	IND	IND				
	1Q07 1Q07D	230	93	360	ND	ND	0.43	ND	810	0.005
Dilution factor for Methane 10	1Q07 1Q07D 2Q07	230 78	93 49	360 400	ND ND	ND 0.14	0.43 0.34	ND ND	810 1,600	ND
	1Q07 1Q07D	230	93	360	ND	ND	0.43	ND	810	

	Sampling	Heterotrophic	TSS	TDS	Nitrate	Ammonia	Phosphorus	Sulfate <sup>(1)</sup>	Methane	Dissolved
Well ID	Event	Plate Count			Nitrogen	Nitrogen	(total)			Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY STANDAR	DS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005
Dilution for Methane is 10	2Q08	11	44	360	ND	0.19	ND	ND	1,400	ND
Dilution factor for Methane 4	3Q08	ND	52	340	ND	0.17	0.4	ND	1	0.006
Dilution factor for Methane 20	4Q08	82	23.6	321	ND	ND	0.31	2.3 J	1,800	ND
Dilution factor for Methane 200	1Q09	9	38.4	356	ND	0.27 J	0.32	ND	5,000	ND
Dilution factor for Methane 5	2Q09	530	6.0 J	327	ND	ND	0.24	5.8	1,000	ND
Dilution factor for Methane 50	3Q09	2	28.8	679	ND	0.36 J	0.26	ND	5,200	ND
Dilution factor for Methane 2	4Q09	54	17.2	408	ND	ND	0.16	4.2 J	460	ND
Dilution factor for Nitrate 5, TDS & TSS 2, Methane 50	1Q10 1Q10D	240 210	24.0 ND	330 330	0 ND	0.21	0.4	ND ND	2,100 2,100	ND ND
Dilution factor for Nitrate 5, TDS 2, Methane 50 Dilution for Methane 100, TSS & TDS 2, Nitrate 5	2Q10	71	18	240	ND ND	0.10	0.40	1.1	1,600	ND ND
Dilution for Methane 50, Nitrate 5	3Q10	42	21	510	ND	0.20	0.35	5.2	900	ND
Dilution for Methane 50, Nitrate 5	3Q10D	44	19	440	ND	0.19	0.37	5.4	910	ND
Dilution factor for Nitrate and Sulfate 5	4Q10	1,200	19	430	ND	0.34	0.36	ND	1,200	ND
Dilution factor for Nitrate and Sulfate 5, Methane 50	1Q11	360	20	370	ND	0.22	0.38	2.6	1,700	ND
Dilution factor for Nitrate and Sulfate 5, Methane 50	1Q11D	300	15	420	ND	0.22	0.37	ND	1,600	ND
Dilution factor for Nitrate and Sulfate 5, Methane 100	2Q11	80	28	220	ND	0.19	0.37	3.6	1,200	ND
Dilution factor for Nitrate and Sulfate 5, Methane 100	3Q11	120	45	430	ND	0.24	0.35	ND	1100	ND
MIN OO!										
MW-28i	2Q06	290	28	367	0.047 J	ND	0.22	2.2 J	1,900	ND
Dilution factor for Methane 10 Dilution factor for Methane 100	3Q06	>5,700	42.8	338	0.047 J ND	ND ND	0.22	3.5 J	1,500	ND ND
Dilution factor for Methane 100	4Q06	440	15.6	335	ND	ND	0.19	3.0 J	1,500	ND
	1Q07	110	34	380	0.1	0.2	0.35	ND	410	ND
Dilution factor for Methane 4	2Q07	24	23	330	ND	0.27	0.29	ND	710	ND
	3Q07	37	37	300	ND	0.28	0.27	ND	560	ND
	4Q07	160	34	360	ND	0.47	0.64	5.1	370	ND
	1Q08	ND 47	25	290	ND	0.37	0.29	ND	170	ND
Dilution factor for Methane 10	2Q08	17 51	38 29	560 310	ND	0.31	0.23	ND ND	870 410	ND ND
Dilution factor for Methane 5	3Q08 4Q08	24	20.8	360	ND ND	0.25 0.54 J	280 0.23	6.7	500	ND ND
Dilution factor for Methane 5 Dilution factor for Methane 10	1Q09	3	31.6	399	ND	.42 J	0.23	ND	1,800	ND ND
Dilution factor for Methane 10	1Q09D	4	35.2	415	ND	0.54 J	0.26	ND	1,700	ND
District factor for mediane to	2Q09	89	13.6	351	ND	ND ND	0.22	7.7	110	ND
Dilution factor for Methane 10	3Q09	ND	20	542	ND	1.1	0.21	2.6 J	2,100	ND
	4Q09	4	18	445	ND	0.38 J	0.11	7.8	190	ND
	4Q09D	4	19.6	417	ND	0.47 J	0.13	7.8	180	ND
Dilution factor for Nitrate 5, TDS & TSS 2, Methane 50	1Q10	10	40	470	ND	0.49	0.34	0.96	1,400	ND
Dilution for Methane 100, TSS & TDS 2, Nitrate 5	2Q10	8	16	260	ND	0.21	0.32	2.1	800	ND
Dilution for Methane 100, TSS & TDS 2, Nitrate 5	3Q10 4Q10	5.5 6.0	23 26	420 470	ND ND	0.33 0.55	0.29 0.32	8.5 2.7	210 620	ND ND
Dilution factor for Nitrate and Sulfate 5 Dilution factor for Nitrate and Sulfate 5. Methane 20	1Q11	5.0	15	430	ND	0.55	0.32	5.8	500	ND
Dilution factor for Nitrate and Sulfate 5, Methane 50	2Q11	36.0	32	240	ND	0.42	0.38	4.8	570	ND
Dilution factor for Nitrate and Sulfate 5, Methane 50	3Q11	20	32	460	ND	0.4	0.31	ND	1400	ND
MW-29s	2Q06	250	58.8	504	ND	11.9	0.45	4.0 J	1,200	ND
Dilution factor for Methane 250	3Q06	>5700	54	546	ND	9.9	0.32	1.9 J	5,000	ND
Dilution factor for Methane 100	4Q06	190	35.6	509	ND	8.3	0.29	3.9 J	5,200	ND
	1Q07	30	41	510	0.14	7.5	0.34	ND	450	0.008
Dilution factor for Methane 4	2Q07	150	56	490	ND	8.3	0.29	ND	1,000	ND
Dilution factor for Methane 10 Dilution for Methane 10	3Q07 4Q07	1,900 FS	54 66	520 500	ND ND	8.1 9.3	0.4 0.44	ND ND	2,500 3,100	ND 0.014
Dillution for Lead 5	1Q08	93	60	510	ND	7.5	0.34	ND	2,000	ND
Dillution for Lead 5	1Q08D	120	38	510	ND	7.6	0.35	ND	1,800	ND
Dilution for Methane 10	2Q08	65	40	490	ND	8.2	0.3	ND	2,100	ND
Dilution factor for Methane 4	3Q08	130	20	460	ND	7.7	0.41	ND	1,700	ND
Dilution factor for Methane 50	4Q08	52	37.2	455	ND	7.2	0.35	ND	4,400	ND
Dilution factor for Methane 50	4Q08D	56	41.6	462	ND	7.2	0.34	ND	4,600	ND
Dilution factor for Methane 200	1Q09	1,600	58.8	425	ND	7.2	0.32	3.0 J	6,100	ND
Dilution factor for Methane 50	2Q09	200	58 47.2	464	ND	5.8	0.28	7.3	4,000	ND
Dillution factor for Methane 100	3Q09 4Q09	21 3	39	542 436	ND ND	7.5 8.9	0.31 0.25	3.3 J ND	4,800 5,800	ND ND
Dillution factor for Methane 20 Dilution for Methane 50, TSS & TDS 2, Nitrate and Ammonia 5	4Q09 1Q10	110	62	440	0.36	6.4	0.25	2.1	2,800	ND ND
Dillution factor for Methane 100, TDS 2, Nitrate and Arimhonia 5	2Q10	110	46	440	ND	4.2	0.39	1.5	6,200	ND
Dillution for Methane 100, Ammonia & Nitrate 5	3Q10	15	45	510	ND	8.9	0.37	7.0	1,800	ND
Dilution for Methane 100, nitrate and sulfate 5, Ammonia 10	4Q10	23	27	420	ND	10	0.41	2.7	4,300	ND
Dilution factor for Nitrate and Sulfate 5	1Q11	470	15	540	0.093	4.3	ND	4.1	1,800	ND
Dilution factor for Nitrate and Sulfate 5	2Q11	560	57	510	ND	3.7	0.33	3.5	4,200	ND
Dilution factor for Nitrate and Sulfate 5, Methane 100	3Q11	250	20	450	0.25	4.5	0.35	ND	4200	ND
			<b> </b>			<b>!</b>	-			
MW 20a	2Q06	2 200	7F G	348	ND	0.06	0.17	5.2	3 900	ND
MW-30s  Dilution factor for Methane 200	3Q06	2,200 >5700	75.6 132	348 457	ND ND	0.86 0.89	0.17	ND	3,800 2,500	ND ND
Dilution factor for Methane 200 Dilution factor for Methane 100	4Q06	>5700	147	448	ND	1.1	0.32	5.5	6,500	ND ND
Dilution factor for Methane 10	2Q07	>5700	650	350	ND	0.94	1.6	ND	1,800	ND
Dilution factor for Methane 4	3Q07	>5700	220	440	ND	1	0.34	ND	1,700	ND
Dilution factor for Methane 4	3Q07D	>5700	180	400	ND	1.1	0.33	ND	1,500	ND
Dilution factor for Methane 10	4Q07	>5700	120	520	ND	1.3	0.22	ND	1,900	ND
Dilution factor for Methane 4	1Q08	1,100	2,300	410	ND	0.97	1.2	ND	1,300	ND
Dilution factor for Methane 10	2Q08	>5700	36	320	ND	0.93	0.26	ND	1,700	ND
Dilution factor for Methane 4	3Q08	ND	36	390	ND	2.60	0.29	ND	1,800	ND
Dilution factor for Methane 50	4Q08	2,300	18	401	ND	1.30	0.19	ND F0	4,100	ND F0
	1Q09	FS 210	FS 40	FS 464	FS	FS 1.2	FS 0.14	FS	FS 2 700	FS
Dilution factor for Methane 20 Dilution factor for Methane 50	2Q09 3Q09	210 720	40 38.8	464 461	ND ND	1.3 1.6	0.14 0.21	2.0 J ND	3,700 4,200	ND ND
Dilution factor for Methane 50  Dilution factor for Methane 20	4Q09	720	33.2	457	ND	1.3	ND	ND	4,400	ND
Dilution lactor for Methane 20	1Q10	FS	FS	FS	FS	FS	FS	FS	FS	FS

Well ID	Sampling	Heterotrophic	TSS	TDS	Nitrate	Ammonia	Phosphorus	Sulfate <sup>(1)</sup>	Methane	Dissolved
Well ID	Event UNITS	Plate Count cfu/ml	mg/l	mg/l	Nitrogen mg/l	Nitrogen mg/l	(total) mg/l	mg/l	ug/l	Lead mg/l
NEW JEDSEY ODGUNDWATER GUALITY STANDAR				_	_	_				
NEW JERSEY GROUNDWATER QUALITY STANDAR	DS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005
Dilution for Methane 200, TSS & TDS 2, Nitrate 5	2Q10D	2,700	50	470	ND	0.93	0.26	ND	3,300	ND
Dilution for Methane 100, TSS & TDS 2, Nitrate 5	2Q10	12,000	48	440	ND	0.91	0.26	ND	3,200	ND
Dilution for Methane 100, Nitrate 5	3Q10	3,600	46	480	ND	1.0	0.32	4.9	1,600	ND
Dilution factor for Nitrate and Sulfatae 5	4Q10	120	31	460	ND	1.2	0.24	ND	4,200	ND
Dilution factor for Nitrate and Sulfatae 5	4Q10D	1,200	41	490	ND	1.2	0.27	ND 5.5	1,400	ND
Dilution factor for Nitrate and Sulfatae 5	1Q11	1,200	42	530	ND ND	0.038	0.26	5.5	1,600	ND ND
Dilution factor for Nitrate and Sulfatae 5, Methane 100	2Q11 3Q11	19,000 300,000	68 66	450 360	ND ND	0.820 0.96	0.32 0.24	ND ND	3,200 2,700	ND ND
Dilution factor for Nitrate and Sulfatae 5, Methane 100 Dilution factor for Nitrate and Sulfatae 5, Methane 100	3Q11D	300,000	66	360	ND ND	0.96	0.24	ND	2,700	0.003
MW-30i	2Q06	>5700	18.8	369	ND	1.8	0.15	8.2	1,100	ND
Dilution factor for Methane 100	3Q06	290	41.6	414	ND ND	0.83	0.13	3.2 J	1,100	ND
Dilution factor for Methane 50	4Q06	40	17.2	456	ND	0.89	0.24	11.1	930	ND
Dilution factor for Methane 50	4Q06D	43	41.2	478	ND	ND	0.23	11.1	930	ND
Dilution factor for Methane 4	2Q07	36	34	300	ND	0.8	0.31	ND	680	ND
	3Q07	ND	41	430	ND	1	0.33	ND	97	ND
	4Q07	470	69	530	ND	1.1	0.45	ND	ND	ND
	1Q08	2	33	410	ND	1.2	0.34	ND	370	ND
	2Q08	23	27	540	ND	1	ND	ND	510	ND
	2Q08D	16	26	300	ND	1	0.29	ND	560	ND
Dilution factor for Methane 4	3Q08	ND	31	390	ND	1.3	0.38	ND	790	ND
Dilution factor for Methane 5	4Q08	6	21.6	411	ND FC	1.4	0.27	4.4 J	400	ND FC
	1Q09	FS 670	FS 36.8	FS 474	FS	FS 13	FS 0.19	FS 5.0	FS 270	FS
Dillusion feature for Markey 10 A 11 11 11	2Q09 3Q09	670 5	36.8 28.0	474 431	ND ND	1.3 1.3	0.19 0.26	5.9 4.3 J	270 660	ND ND
Dillution factor for Methane 2, Ammonia Nitrogen 2 Dillution factor for Methane 2	3Q09D	6	24.8	444	ND ND	0.72	0.25	4.3 J 4.2 J	730	ND ND
Dillution factor for Methane 2	4Q09	13	24.0	444	ND	ND	0.25	4.2 J 6.1	170	ND ND
	1Q10	FS	FS	FS	FS	FS	FS	FS	FS	FS
Dilution for Methane 100, TSS & TDS 2, Nitrate 5	2Q10	130	42	460	ND	0.86	0.38	ND	2,100	ND
Dilution for Methane 50. Nitrate 5	3Q10	50	31	440	ND	1.1	0.39	5.6	640	ND
Dilution for Nitrate and Sulfate 5	4Q10	17	39	540	ND	1.1	0.35	5.1	65	ND
Dilution for Nitrate and Sulfate 5, Methane 10	1Q11	50	27	500	ND	ND	0.30	10.0	670	ND
Dilution for Nitrate and Sulfate 5, Methane 100	2Q11	78	57	390	ND	0.6	0.46	2.7	1,200	ND
Dilution for Nitrate and Sulfate 5, Methane 100	2Q11D	160	40	390	ND	0.7	0.43	2.6	1,700	ND
Dilution for Nitrate and Sulfate 5, Methane 100	3Q11	350	28	380	ND	0.8	0.34	ND	940	ND
MW-30d	2Q06	2,800	11.6	248	ND	0.30 J	ND	9.7	45	ND
	3Q06	>5700	6.4 J	288	0.043 J	ND	ND	10.6	5	ND
	4Q06	47	5.6 J	375	ND	ND	ND	12.5	22	ND
	2Q07	130	13	240	ND	0.11	ND	10	77	ND
	3Q07	78	9	260	ND	0.16	ND	11	ND	ND
	4Q07	FS	20	300	ND	0.24	0.11	11	ND	ND
	4Q07D	FS	20	270	ND	0.19	0.28	11	ND 47	ND
	1Q08 2Q08	790 420	8 12	300 370	ND ND	0.12 0.27	ND ND	9.4 5.3	47 140	ND ND
	3Q08	ND	9.2	280	ND	0.27	0.13	9.2	16	ND ND
	4Q08	40	9.2 J	309	ND	0.27 J	ND	12.7	ND	ND
	1Q09	FS	FS	FS	FS	FS	FS	FS	FS	FS
	2Q09	75	9.2 J	324	0.046 J	ND	ND	14.3	5 J	ND
	3Q09	9	6.4 J	321	ND	ND	ND	14.8	60	ND
	4Q09	7	5.2 J	331	0.1	ND	ND	15	ND	ND
Dilution factor for Nitrate 5, Methane 4	1Q10	38	11	350	ND	0.12	0.05	10	90	ND
Dilution factor for Methane 2, Nitrate 5, TDS 10	2Q10	33	6.0	110	ND	0.079	0.051	8.7	71	ND
Dilution factor for Nitrate 5	3Q10	8,300	15.0	300	ND	0.071	0.13	12	ND	ND
Dilution factor for Nitrate and Sulfate 5	4Q10	56	10.0	500	0.1	0.160	0.05	14	ND	ND
Dilution factor for Nitrate and Sulfate 5	1Q11	250	7.0	330	ND 0.3	0.920	ND 0.091	14	11	ND
Dilution factor for Nitrate and Sulfate 5 Dilution factor for Nitrate and Sulfate 5, Methane 10	2Q11 3Q11	3,500 1,100	5.0 5.0	300 350	0.3	0.072 0.098	0.081 ND	12 9	28 64	ND ND
Disastriction for this are and Guilate 3, Welfield 10	3411	.,100	3.0		3.5	0.000			34	.,,
MW-31s	0.5		4							
Dilution factor for Ammonia and Methane 10	2Q08	>5700	460	810	0.12	22	0.68	44	3,000	ND
Dilution factor for Ammonia and Methane 10	3Q08	ND F700	320	1900	ND	22	0.71	72	2,100	ND
Dilution factor for Sulfate 10 and Methane 50	4Q08	> 5700	11.5 J	502	ND	10.8	0.14	84.2	2,800	ND
Dilution factor for Methane 100 Dilution factor for Sulfate and Methane 20	1Q09 2Q09	620 > 5700	35.2 ND	629 556	ND 0.056 J	22.6 6.4	0.40 ND	47.9 136	11,000 2,400	ND ND
Dilution factor for Sulfate and Methane 20 Dillution factor for Methane 50	3Q09	6,800	36.80	576	0.056 J ND	19.8	0.12	35.9	12,000	ND ND
Dillution factor for Methane 50 Dillution factor for Sulfate 20, and Methane 20	4Q09	100,000	7.6 J	619	ND ND	9.1	ND	187.0	3,200	ND
Dilution factor for Nitrate 5, Ammonia 10, TSS 2, Methane 500	1Q10	230	54.00	600	ND	16.0	0.30	56.0	15,000	ND
Dilution for Methane 500, Ammonia 10, TDS 5, Nitrate 5	2Q10	210,000	5.0	630	ND	12.0	0.26	36	13,000	ND
Dilution for Methane 250, Ammonia 10, Nitrate 5	3Q10	>30,000	11.0	920	ND	15.0	0.25	41	3,900	ND
Dilution factor for Nitrate 5, Sulfate 24, Methane 200	4Q10	>30000	23.0	430	ND	2.0	0.10	510	970	ND
Dilution factor for Nitrate 5, Sulfate 5, Ammonia 10, Methane 200	1Q11	36,000	ND	620	ND	9.1	0.21	120	10,000	ND
Dilution factor for Nitrate 5, Sulfate 5, Methane 200	2Q11	180	23.0	640	ND	0.1	0.24	46	6,800	ND
Dilution factor for Nitrate and Sulfate 5, Methane 400, Ammonia 5	3Q11	66	ND	560	ND	8.2	0.21	58	8,000	ND
MW-32s										
Dilution factor for Methane 10	2Q08	>5700	NS	3400	ND	2	14	8.6	4,800	ND
D2 C - f - t - t - 14 - t 10	3Q08	410	NS	650	ND	1.6	2.6	NS	2,900	ND
Dilution factor for Methane 10	4Q08	> 5700	50	818	ND	1.6	0.11	200	5,400	ND
Dilution factor for Sulfate 20 and Methane 100			385	637	ND	0.69	ND	8.9	9,500	ND
Dilution factor for Sulfate 20 and Methane 100 Dilution factor for Methane 200	1Q09	430								
Dilution factor for Sulfate 20 and Methane 100 Dilution factor for Methane 200 Dilution factor for Sulfate 20 and Methane 100	2Q09	240	35.2	612	0.16	1.8	ND	122	6,900	ND
Dilution factor for Sulfate 20 and Methane 100 Dilution factor for Sulfate 20 and Methane 200 Dilution factor for Sulfate 20 and Methane 100 Dillution factor for Ammonia Nitrogen 3 and Methane 50	2Q09 3Q09	240 290	35.2 113	612 620	0.16 ND	ND	ND	2.8 J	12,000	ND
Dilution factor for Sulfate 20 and Methane 100 Dilution factor for Methane 200 Dilution factor for Sulfate 20 and Methane 100 Dilution factor for Ammonia Nitrogen 3 and Methane 500 Dilution factor for Ammonia Nitrogen 3 and Methane 50	2Q09 3Q09 4Q09	240 290 5,200	35.2 113 208	612 620 691	0.16 ND ND	ND 1.2	ND ND	2.8 J 47.9	12,000 7,300	ND ND
Dilution factor for Sulfate 20 and Methane 100 Dilution factor for Sulfate 20 and Methane 200 Dilution factor for Sulfate 20 and Methane 100 Dillution factor for Ammonia Nitrogen 3 and Methane 500	2Q09 3Q09	240 290	35.2 113	612 620	0.16 ND	ND	ND	2.8 J	12,000	ND

	Sampling	Heterotrophic	T00	TDO	Nitrate	Ammonia	Phosphorus	<b>2</b> 15 . (1)	Marthana	Dissolved
Well ID	Event	Plate Count	TSS	TDS	Nitrogen	Nitrogen	(total)	Sulfate <sup>(1)</sup>	Methane	Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY STANDAR	DS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005
			l .			L	l	ļ.		
Dilution for Methane 200, Nitrate 5	3Q10	11,000	400	850	ND	0.40	0.17	12	5,100	ND
Dilution factor for Nitrate 5, Sulfate 100, Methane 200	4Q10	500,000	69	300	ND	0.54	0.29	460	2,100	ND
Dilution factor for Nitrate 5,Sulfate 5,Methane 200	1Q11	950	31	710	ND	0.35	0.17	120	8,700	ND
Dilution factor for Nitrate 5,Sulfate 5,Methane 200	2Q11	56,000	41	700	ND	1.40	0.35	49	7,200	ND
Dilution factor for Nitrate and Sulfate 5,Methane 400, Ammonia 5	3Q11	140,000	30	720	ND	2.10	0.29	70	6,800	ND
MW-33s										
Dilution factor for Methane 10	2Q08	>5700	220	310	ND	5	0.17	8	2,800	0.011
Dilution factor for Methane 10	3Q08	ND	250	380	ND	7	ND	10	2,000	ND
Dilution factor for Methane 100	4Q08	> 5700	51	358	ND	7.4	0.13	8.6	4,800	ND
Dilution factor for Methane 200	1Q09	160	122	395	ND	ND	ND	68.1	9,600	ND
Dilution factor for Methane 50	2Q09	2,800	74	410	ND	6.7	0.31	4.8 J	8,400	ND
Dilution factor for Ammonia Nitrogen 2 and Methane 25	3Q09	1,200	181	610	ND	5.8	0.42	12.9	5,100	ND
Dilution factor for Methane 20	4Q09 1Q10	670 6.700	85 ND	518 420	ND ND	5.8 7.2	ND 0.00	7.2 6.2	3,200 6,900	ND ND
Dilution factor for TDS 2, Nitrate, & Ammonia 5, Methane 200	2Q10	6,700	74	420	ND ND	4.0	0.06	9.3		ND ND
Dilution for Methane 200, TSS 2, TDS 20, Nitrate 5 Dilution for Methane 200, Nitrate 5	3Q10	66,000	22	650	ND	4.3	0.098 0.130	18	6,100 540	ND ND
Dilution for Nitrate and Sulfate 5. Methane 100	4Q10	34,000	34	1400	ND	4.0	0.190	110	270	ND
Dilution for Nitrate and Sulfate 5, Methane 100  Dilution for Nitrate and Sulfate 5, Methane 50	1Q11	21,000	23	750	ND	1.8	0.080	120	2,200	ND
Dilution for Nitrate and Sulfate 5, Methane 50  Dilution for Nitrate and Sulfate 5, Methane 100	2Q11	9,300	92	700	0.28	1.4	0.150	77	1,500	ND
Dilution for Nitrate and Sulfate 5, Methane 100	3Q11	560	100	580	ND	2.8	0.220	29	1,200	ND
MW-34s	2000	. 5700	N'O	400	ND	ND	NE	40	0.700	NID
Dilution factor for Methane 10	2Q08	>5700 ND	NS NS	<b>490</b> NS	ND NS	ND ND	ND 0.34	12 NS	3,700	ND NS
Dilution factor for Methane 10 Dilution factor for Methane 5	3Q08		NS		NS 0.53			NS 22.0	2,800	NS ND
Dilution factor for Methane 5 Dilution for Ammonia Nitrogen 5, Methane 200	4Q08 1Q09	2,100 NM	ND NS	<b>693</b> NS	0.53 ND	0.35 J ND	ND ND	23.9 NS	7,200	ND ND
Dilution for Ammonia Nitrogen 5, Methane 200 Dilution factor for Methane 100	2Q09	NA NA	26.4	369	0.16	0.38 J	ND ND	8.7	8,600	ND ND
Dilution factor for Methane 100  Dilution factor for Methane 50	3Q09	150	56.4	NS	ND	0.36 J	ND ND	4.9 J	9,600	ND ND
Dilution factor for Methane 20	4Q09	45	293	462	ND	ND	ND	9.8	4,400	ND
Dilution factor for Nitrate 5, TDS 2, Methane 400	1Q10	9,300	27	400	ND	0.13	ND ND	2.8	9,200	ND ND
Dilution for Methane 200, TSS 2, TDS 10, Nitrate 5	2Q10	1,700	20	370	ND	ND	ND	2.8	8,700	ND
Dilution for Methane 200	3Q10	>30,000	DR	DR	DR	0.032	0.084	DR	3,100	ND
Dilution factor for Nitrate 5, Sulfate 100	4Q10	8,700	24	180	0.23	0.14	ND	210	ND	ND
Dilution factor for Nitrate and Sulfate 5, Methane 10	1Q11	810	6	380	ND	0.13	ND	65	270	ND
Dilution factor for Nitrate and Sulfate 5,Methane 100	2Q11	2,600	24	560	ND	0.15	0.064	81	1,300	ND
Dilution factor for Nitrate and Sulfate 5, Methane 100	3Q11	40	22	580	ND	0.16	0.06	100	800	ND
MW-35s	0000	5700	0400	F70	ND	4.0	ND	40	0.000	ND
Dilution factor for Methane is 10	2Q08	>5700	2100	570	ND ND	1.8	ND	13 ND	3,900	ND
Dilution factor for Methane is 10	3Q08 4Q08	ND > 5700	85 22.4 J	520 568	ND ND	1.3 2.9	ND 0.16	20.6	3,600 12,000	ND ND
Dilution factor for Methane 100	1Q09	1,800	37.6	499	ND	0.8	.087 J	ND	20,000	ND ND
Dilution factor for Methane 200 Dilution factor for Methane 200	2Q09	680	77.6	459	ND	1.1	0.19	9.4	20,000	ND ND
Dilution factor for Methane 100	3Q09	50	114.0	466	ND	1.4	0.25	ND	17,000	ND
Dilution factor for Methane 50	4Q09	1,100	26.8	508	ND	0.84	ND	17.1	8,400	ND
Dilution factor for Nitrate 5, TDS 2, Methane 1000	1Q10	680	ND	460	ND	0.24	0.08	0.9	17,000	ND
Dilution for Methane 400, TSS 2, TDS 20, Nitrate 5	2Q10	76	38	540	ND	0.081	0.079	ND	15,000	ND
Dilution for Methane 250, Nitrate 5	3Q10	170	35	570	ND	0.15	0.11	4.6	13,000	ND
Dilution factor for Nitrate and Sulfate 5, Methane 250	4Q10	5800	64	720	ND	0.78	0.09	24.0	4,200	ND
Dilution factor for Nitrate and Sulfate 5,Methane 200	1Q11	580	39	430	ND	0.11	0.10	2.7	9,200	ND
Dilution factor for Nitrate and Sulfate 5,Methane 100	2Q11	630	61	530	ND	0.20	0.18	ND	6,500	ND
Dilution factor for Nitrate and Sulfate 5,Methane 100, Ammonia 5	3Q11	440	48	550	ND	0.40	0.15	3.6	12,000	ND
Atmospheric Blank	1Q05	> 5700	ND	ND	ND	ND	ND	ND	ND	NS
Autospheric Dialik	4Q05	5	ND	10.0 J	ND ND	ND	ND ND	0.30 J	ND	NS
	1Q06	2	ND	ND	ND	ND	ND	ND	ND	NS
	2Q06	38	ND	ND	ND	ND	ND	1.5 J	ND	ND*
	3Q06	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q06	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q07	1	ND	ND	ND	ND	ND	ND	22	ND*
	2Q07	ND	ND	19	ND	ND	ND	ND	ND	ND*
	3Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q07	ND	ND	ND	ND	0.16	ND	ND	ND	ND*
	1Q08	ND ND	ND	ND	ND	0.16	ND ND	ND	ND	ND*
	2Q08	ND ND	ND ND	ND	ND	ND 0.16	ND	ND	ND	0.0051*
	3Q08 4Q08	ND ND	ND ND	ND ND	ND ND	0.16 ND	ND ND	ND ND	ND ND	ND* ND*
	1Q09	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND	ND	ND*
	2Q09	ND	ND	ND	ND	ND	ND ND	ND	ND	ND*
	3Q09	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q09	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q10	ND	11	ND	0.35	ND	ND	ND	ND	ND*
Dilution factor for Nitrate, Lead, and TDS 5	2Q10	ND	ND	ND	ND	ND	ND	ND	ND	ND*
Dilution factor for Nitrate and Lead 5	3Q10	ND	ND	ND	ND	ND	ND	ND	ND	ND*
Dilution factor for Lead, Nitrate and Sulfate 5	4Q10	2.5	ND	15	ND	ND	ND	ND	ND	ND*
Dilution factor for Lead, Nitrate and Sulfate 5	1Q11	ND	ND	ND	ND	0.042	ND	ND	ND	ND*
Dilution factor for Lead, Nitrate and Sulfate 5	2Q11	3.5	ND	ND	ND	0.038	ND	ND	ND	ND*
Dilution factor for Lead, Nitrate and Sulfate 5	3Q11	ND	ND	ND	ND	0.02	ND	ND	ND	ND*
Please Pl	100=			1.5				L/S	L'O	110
Rinsate Blank	1Q05	36 ND	ND	ND	ND	ND ND	ND ND	ND	ND	NS NC
	3Q05	ND ND	ND	ND	ND	ND ND	ND ND	ND	ND	NS NC
	4Q05 1Q06	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NS NS
	2Q06	120	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND*
	2Q06 2Q06	250	ND	ND ND	ND	ND ND	ND ND	ND	ND	ND*
	-400	-50			. 10					

### Dayco Corporation/L.E. Carpenter Superfund Site Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Monitoring - MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate <sup>(1)</sup>	Methane	Dissolved Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY STANDAR	DS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005
	3Q06	45	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q06	84	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q06	56	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	2Q07	1	ND	2.5	ND	ND	ND	ND	ND	ND*
	2Q07	2	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q07	ND	ND	11	0.17	ND	ND	ND	ND	ND*
	1Q08	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q08	ND	ND	ND	ND	ND	0.15	ND	ND	ND*
	2Q08	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	2Q08	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q08	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q08	ND	ND	ND	ND	ND	ND	ND	ND	ND*
RB-02	4Q08	ND	ND	ND	ND	ND	ND	ND	ND	ND*
RB-03	4Q08	ND	ND	ND	ND	ND	ND	ND	ND	ND*
RB-02	1Q09	ND	ND	ND	ND	ND	ND	ND	ND	ND*
RB-03	1Q09	26	ND	ND	ND	ND	ND	ND	ND	ND*
RB-01	2Q09	1	ND	ND	ND	ND	ND	ND	ND	ND*
RB-02	2Q09	ND	ND	ND	ND	ND	ND	ND	ND	ND*
RB-01	3Q09	32	ND	ND	ND	ND	ND	ND	ND	ND*
RB-02	3Q09	ND	ND	ND	ND	ND	ND	ND	ND	ND*
RB-02	4Q09	ND	ND	ND	ND	ND	ND	ND	ND	ND*
RB-02 Dilution for Nitrate 5, TSS 2	1Q10	1	24	ND	ND	ND	ND	0.66	ND	ND*
RB-02 Dilution for Nitrate 5, TDS 2	2Q10	ND	ND	ND	ND	ND	ND	ND	ND	ND*
RB-02 Dilution for Leaed & Nitrate 5	3Q10	1	ND	110	ND	ND	ND	ND	2.7	ND*
RB-02 Dilution factor for Lead, Nitrate, Sulfate 5	4Q10	ND	ND	120	ND	ND	ND	ND	ND	ND*
RB-03 Dilution factor for Lead, Nitrate and Sulfate 5	4Q10	ND	ND	220	ND	0.013	ND	ND	ND	ND*
RB-02 Dilution factor for Lead, Nitrate and Sulfate 5	1Q11	ND	ND	ND	ND	0.045	ND	ND	ND	ND*
RB-03 Dilution factor for Lead, Nitrate and Sulfate 5	1Q11	5.5	11	ND	ND	0.048	ND	ND	ND	ND*
RB-02 Dilution factor for Lead, Nitrate and Sulfate 5	2Q11	19	ND	ND	0.27	0.033	ND	ND	ND	ND*
RB-03 Dilution factor for Nitrate and Sulfate 5	2Q11	14	ND	ND	ND	0.038	ND	ND	ND	ND*
RB-03 Dilution factor for Nitrate and Sulfate 5	3Q11	45	ND	ND	ND	0.01	ND	ND	ND	ND*
RB-03 Dilution factor for Nitrate and Sulfate 5	3Q11	ND	ND	ND	ND	ND	ND	ND	ND	ND*

Notes:

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1005.

Groundwater monitoring wells MW-19, MW-19-1, MW-19-2, MW-19-3, MW-19-4, MW-19-6, MW-19-6, MW-19-7, MW-19-10, MW-19-11, GEI-2S, and GEI-2I were abandoned in October 2009.

(1) Sulfate results reported through 4006, and starting again in 4008, have a dilution factor of s, except for blank samples or unless otherwise noted. Sulfate results reported through 3008 have no dilution factor for sulfate unless noted otherwise.

(2) NJ CLASS IIA GWQC, NJ SWQC [FW2] and PQL are for Total Lead

(3) MW-19 area monitoring wells were abandoned in 402009. Therefore, MW-19 area wells have not been sampled for MNA parameters since 1Q10.

MNA monitoring will continue following the installation of the USEPA approved post excavation monitoring well network.

NS = Not Sampled Concentration exceeds NJGWQS 1.2 FS= Samples frozen in transit to lab. * Total Lead Upper Grab Sample	NCS	: No Criteria Specified by NJDEP	NA = Not Analyzed, due to lack of recharge water		DR = Dry	ND = Not Detected	Lower Grab Sample
	NS =	Not Sampled	Concentration exceeds NJGWQS	1.2	FS= Samples frozen in transit to lab.	* Total Lead	Upper Grab Sample

MW-19	NS 70 95 121 <10 <10 60 18 >100 60 90 70 35 120 80 40 41 130 50 17 14 40 35 17 17 18 NS 33 20
3Q04   7.62   1179   -10   0.1   2   16.18   <10   200	95 121 <10 <10 60 18 >100 60 90 70 35 120 80 40 14 130 50 17 14 40 35 17 30 70 NS 33
1005	121 <10 <10 60 18 >100 60 90 70 35 120 80 40 14 130 50  17 14 40 35  17 30 70 NS 33
2Q05 <sup>L</sup>   7.84   734   NM	<10 <10 <10 60 18 >100 60 90 70 35 120 80 40 14 130 50  17 14 40 35  17 30 70 NS 33
2Q05 <sup>6</sup>	<10 60 18 >100 60 90 70 35 120 80 40 14 130 50 17 14 40 35 17 30 70 NS 33
3005   7.03   1920   185   1   9   15.86   >10   110	60 18 >100 60 90 70 35 120 80 40 14 130 50 17 14 40 35 17 30 70 70 NS 33
MW-19-R	18 >100 60 90 70 35 120 80 40 14 130 50 17 14 40 35 17 30 70 70 NS 33
1006	>100 60 90 70 35 120 80 40 14 130 50 17 14 40 35 17 30 70 NS 33
2006	60 90 70 35 120 80 40 14 130 50 17 14 40 35 17 30 70 70 NS 33
3Q06	90 70 35 120 80 40 14 130 50  17 14 40 35  17 30 70 NS 33
	70 35 120 80 40 14 130 50 17 14 40 35 17 30 70 70 NS 33
1007   6.59   444   -90.3   0.15   5   10.38   20   250	35 120 80 40 14 130 50 17 14 40 35 17 30 70 70 NS 33
Commonstrate	120 80 40 14 130 50 17 14 40 35 17 30 70 70 NS
3Q07   6.59   1201   -94   0.1   2   17.05   >20   200     4Q07   6.36   865   5   0.2   5.1   12.54   >20   225     1Q08   6.4   214.2   111.7   0.6   5   8.55   0.1   40     2Q08   6.12   1,068   68.4   0.22   6.66   10.55   >10   125     3Q08   6.42   1,150   -30   0.16   7   13.94   >20   140     MW-19R   4Q10   7.02   1144   -28.2   0.09   9.35   13.34   15   180     1Q11   6.91   993   0.5   2.56   9.94   6.99   0.2   120     2Q11   6.77   1900   82   2.25   6.21   12.57   0.2   200     3Q11   7.18   1440   -53   0.62   9.5   16.86   2   130     MW-19-5R   4Q10   6.84   976   -98   0.1   9.7   14.06   >20   250     4Q01   6.47   1322   -54   2.02   7.6   11.89   >20   250     3Q11   7.25   1414   -112   0.45   9   16.71   >20   300     MW-19-6   1Q04   NS   NS   NS   NS   NS   NS   NS     2Q04   6.86   2640   56   5.48   10   15.24   NM   80     3Q04   7.43   2490   83   1   4   16.61   0.4   125     1Q05   7.73   867   241   1   12   11.79   0   204(1)     2Q05   7.50   1870   NM   1   27   10.64   0.1   75     2Q05   7.48   1790   NM   1   2   9.89   1   80     3Q05   7.28   3030   191   1   36   15.2   0.4   70     4Q05   5.86   1550   307   5.39   9   14.76   0   80     1Q06   6.60   1116   237   3.71   4   9.93   0   12	80 40 14 130 50 17 14 40 35 17 30 70 70 NS 33
MW-19R   4Q10   6.36   865   5   0.2   5.1   12.54   >20   225	40 14 130 50 17 14 40 35 17 30 70 70 NS 33
1Q08	14 130 50 17 14 40 35 17 30 70 70 NS 33
2Q08	130 50 17 14 40 35 17 30 70 70 NS 33
MW-19R	50 17 14 40 35 17 30 70 NS 33
MW-19R   4Q10   7.02   1144   -28.2   0.09   9.35   13.34   15   180	17 14 40 35 17 30 70 70 NS 33
1Q11	14 40 35 17 30 70 70 NS 33
1Q11	40 35 17 30 70 70 NS 33
MW-19-5R   4Q10   6.84   976   -98   0.1   9.7   14.06   >20   250	35 17 30 70 70 NS 33
MW-19-5R         4Q10         6.84         976         -98         0.1         9.7         14.06         >20         250           1Q11         6.66         1018         55.1         0.16         4.59         8.83         15         180           2Q11         6.47         1322         -54         2.02         7.6         11.89         >20         250           3Q11         7.25         1414         -112         0.45         9         16.71         >20         300           MW-19-6         1Q04         NS         <	17 30 70 70 NS 33
1Q11	30 70 70 NS 33
1Q11	30 70 70 NS 33
MW-19-6	70 70 NS 33
MW-19-6   1Q04   NS   NS   NS   NS   NS   NS   NS   N	70 NS 33
MW-19-6         1Q04         NS	NS 33
2Q04     6.86     2640     56     5.48     10     15.24     NM     80       3Q04     7.43     2490     83     1     4     16.61     0.4     125       1Q05     7.73     867     241     1     12     11.79     0     204 <sup>(1)</sup> 2Q05 <sup>L</sup> 7.50     1870     NM     1     27     10.64     0.1     75       2Q05 <sup>U</sup> 7.48     1790     NM     1     2     9.89     1     80       3Q05     7.28     3030     191     1     36     15.2     0.4     70       4Q05     5.86     1550     307     5.39     9     14.76     0     80       1Q06     6.60     1116     237     3.71     4     9.93     0     12	33
2Q04     6.86     2640     56     5.48     10     15.24     NM     80       3Q04     7.43     2490     83     1     4     16.61     0.4     125       1Q05     7.73     867     241     1     12     11.79     0     204 <sup>(1)</sup> 2Q05 <sup>L</sup> 7.50     1870     NM     1     27     10.64     0.1     75       2Q05 <sup>U</sup> 7.48     1790     NM     1     2     9.89     1     80       3Q05     7.28     3030     191     1     36     15.2     0.4     70       4Q05     5.86     1550     307     5.39     9     14.76     0     80       1Q06     6.60     1116     237     3.71     4     9.93     0     12	33
3Q04 7.43 2490 83 1 4 16.61 0.4 125 1Q05 7.73 867 241 1 12 11.79 0 204 <sup>(1)</sup> 2Q05 <sup>L</sup> 7.50 1870 NM 1 27 10.64 0.1 75 2Q05 <sup>U</sup> 7.48 1790 NM 1 2 9.89 1 80 3Q05 7.28 3030 191 1 36 15.2 0.4 70 4Q05 5.86 1550 307 5.39 9 14.76 0 80 1Q06 6.60 1116 237 3.71 4 9.93 0 12	
1Q05     7.73     867     241     1     12     11.79     0     204 <sup>(1)</sup> 2Q05 <sup>L</sup> 7.50     1870     NM     1     27     10.64     0.1     75       2Q05 <sup>U</sup> 7.48     1790     NM     1     2     9.89     1     80       3Q05     7.28     3030     191     1     36     15.2     0.4     70       4Q05     5.86     1550     307     5.39     9     14.76     0     80       1Q06     6.60     1116     237     3.71     4     9.93     0     12	
2Q05 <sup>L</sup> 7.50         1870         NM         1         27         10.64         0.1         75           2Q05 <sup>U</sup> 7.48         1790         NM         1         2         9.89         1         80           3Q05         7.28         3030         191         1         36         15.2         0.4         70           4Q05         5.86         1550         307         5.39         9         14.76         0         80           1Q06         6.60         1116         237         3.71         4         9.93         0         12	41
2Q05 <sup>U</sup> 7.48     1790     NM     1     2     9.89     1     80       3Q05     7.28     3030     191     1     36     15.2     0.4     70       4Q05     5.86     1550     307     5.39     9     14.76     0     80       1Q06     6.60     1116     237     3.71     4     9.93     0     12	15
3Q05     7.28     3030     191     1     36     15.2     0.4     70       4Q05     5.86     1550     307     5.39     9     14.76     0     80       1Q06     6.60     1116     237     3.71     4     9.93     0     12	20
4Q05         5.86         1550         307         5.39         9         14.76         0         80           1Q06         6.60         1116         237         3.71         4         9.93         0         12	20
1Q06 6.60 1116 237 3.71 4 9.93 0 12	10.5
	>10.3
	23
3Q06 7.44 1249 162 4.48 9 16.11 0 100	24
4Q06 7.47 941 207 4.7 8 15.45 0 70	40
1Q07 6.82 602 69.5 1.16 8 11.38 0.2 90	16
2Q07 6.69 2720 -35 1 5.6 14.36 0.1 140	50
3Q07 7.16 1458 12 0.8 4 17.3 0.6 160	42
4Q07 7.44 1283 51.4 2 5.9 12.92 0.3 25	17
1Q08 6.52 854.4 91.2 1 6 10.71 0.4 100	20
2Q08 6.71 1,205 119.4 3.69 2.4 11.83 0.6 110	35
3Q08 6.78 2,280 39 1.3 8 15.51 3 140	28
4Q08 6.8 1,550 62 2.23 9 15.15 0.3 155	19
1Q09 7.51 1152 48 2.5 8.69 10.10 0.4 120	20
2Q09   6.46   258   -39   2.69   8.65   9.88   0.6   70	25 25
3Q09 7.12 1730 38 2.1 9 14.02 1 60	25
MW-19-6R 4Q10 6.99 768 19.8 1.5 8.83 14.06 1 130	11
1Q11 6.72 2000 -32 0.22 7.85 9.63 2 160	20
2Q11 6.62 1302 1 3.86 9.5 11.33 1 130	20
3Q11 7.13 1365 -29 1.24 2.97 17.52 1 140	25
	-
MW-19-7 1Q04 NS NS NS NS NS NS NS NS NS	NS
2Q04 6.82 380 48 5.89 6 14.34 NM 95	90
3Q04 6.92 4040 113 1 2 16.77 1 75	70
1Q05 7.16 1388 281 0.6 1 11.34 3 200 <sup>(1)</sup>	63
2Q05 <sup>L</sup> 7.82 938 102 0.05 25 11.7 15 160	36
2Q05 <sup>U</sup> 7.80 961 NM 1 49 11.22 15 200	29
3Q05 <sup>L</sup> 7.03 2670 90 0.8 17 14.76 >10 95	0.8
3Q05 7.02 2460 185 1 5 16.02 >10 70	35
4Q05 5.98 1434 -44 1.58 14 14.85 >10 11	30
1Q06 6.20 1130 43 1.86 14 10.81 >10 >100	>100
2Q06 7.41 1284 -33 3.87 9 13.28 >10 170	
3Q06 7.28 1254 33 0.6 10 15.8 9 200	70
4Q06 7.47 970 204 0.44 7 15.23 2 185	70 50

Well ID	Event	рН	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
	1Q07	6.80	518	-84.3	0.12	6	11.52	9	175	23
	2Q07	6.98	1397	36	0	4.5	15.68	2	100	38
	3Q07	7.05	1016	181	0.2	5	17.48	0.2	120	38
	4Q07	6.48	2126	74.2	0.6	5.3	12.7	0.2	70	30
	1Q08	6.21	2023	105.4	1	10	9.48	0.3	45	27
	2Q08	6.42	1,892	0.5	0.24	9.13	11.31	1.5	130	22.5
	3Q08	6.94	980	60	0.11	29	16.78	0.5	150	27
	4Q08	6.42	806	50.9	0.23	9.13	15.77	0.6	130	14
	1Q09	7.28	4350	53	1.33	3.2	9.70	1	120	20
	2Q09	6.58	5120	-14	4.24	28.1	9.00	2	40	18
	3Q09	7.26	2310	112	0.38	8	15.04	0.6	80	21
MW-19-7R	4Q10	7.07	747	-28.2	0.1	9.46	15.01	5	130	11
	1Q11	6.83	1521	12.5	0.22	12	9.1	16	180	25
	2Q11	6.54	1870	-65	2.3	5.24	12.14	14	150	35
	3Q11	7	1189	-54	0.52	7.64	18.41	10	140	30
	1001		110							
MW-19-8	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	6.9	2010	-24	3.98	10	15.69	NM	125	30
	3Q04	7.52	1093	48	0.4	7	18.29	2	100	19
	1Q05	7.06	177	161	0.3	16	12.92	10	142 <sup>(1)</sup>	28
	2Q05	7.92	1510	NM	8.0	47	10.82	6	70	19
	3Q05	7.07	1820	147	0	2	18.86	3	80	19
	4Q05	6.10	1460	330	6.74	5	17.19	3	85	20
	1Q11	6.87	2162	80.1	3.36	8.13	8.59	0	130	14
	3Q11	6.94	704	156	2.46	4.45	21.11	NM	NM	NM
MW-19-12	2Q06	7.29	1046	-33	0.99	9	16.06	4	120	100
	3Q06	7.41	1460	5	0.21	18	17.9	4	12	17
	4Q06	7.60	1234	191	0.23	10	16.72	3.5	1000	17
	1Q07	6.91	680	-39.6	0.18	8	12.29	1.5	100	10
	2Q07	7.24	473	137	2	5	18.56	0	110	11
	3Q07	7.45	463	118	2	2	19.2	0	85	0
	4Q07	7.55	439	2.7	9	8.1	9.68	0	110	<10
		6.72			2			0	40	_
	1Q08		197.2	78.4		2	7.59			<10
	2Q08	7.09	386	79	7.4	0.12	13.31	0	110	<10
	3Q08	7.23	369	51	4.29	6	19.58	0	70	12
	4Q08	6.72	500	91	4.63	2	13.64	0.1	110	12
	1Q09	7.91	568	72	6.47	0.5	7.47	0.1	120	<10
	2Q09	7.59	621	18	9.6	7.18	9.29	0	70	6
	3Q09	7.11	464	123	4.98	1	17.23	0	70	13
	4Q09	7.86	507	164	5.7	3	13.16	0	100	15
	1Q10	7.86	207	352	7.27	1	6.65	0	100	20
	2Q10	7.53	377	42.2	5.20	9.30	12.22	NM	NM	NM
	3Q10	6.81	423	151	5.17	8.00	18.90	NM	NM	NM
	4Q10	7.33	324	-65.2	4.46	2.89	10.83	0	110	<10
	1Q11	7.3	293	47.2	5.30	5.34	8.30	0	100	10
	2Q11	7.27	419	530	3.92	9.80	14.19	0	100	11
	3Q11	7.12	739	166	3.43	0.79	19.86	6	50	10
	_	ļ	<b></b>							1
MW-19-13	4Q10	6.96	704	-36.7	0.11	44.70	14.74	>20	160	18
	1Q11	6.31	734	45	1.44	190.00	9.21	10	40	45
	2Q11	6.49	976	-59	0.14	41.90	12.48	10	150	40
	3Q11	7.04	977	-100	0.08	12.20	16.08	16	180	50
			ļ							
MW-19-14	4Q10	6.79	1054	-5.5	0.14	3.83	12.37	4	200	18
	1Q11	6.92	944	33.4	3.41	8.03	7.37	0.2	190	15
	2Q11	6.82	1810	126	2.35	8.90	12.25	0.1	160	18
	3Q11	7.05	1830	-53	1.23	7.46	17.84	3	250	30
MW-19-15	4Q10	6.94	647	57.8	1.10	47.00	14.45	0.2	160	13
	1Q11	6.58	1606	92.5	3.73	15.20	8.64	0.2	150	11
	2Q11	6.4	1202	26	1.52	15.10	12.81	2	100	30
	3Q11	6.78	1287	11	1.18	27.00	17.06	0.6	100	35
					2.00	8.81	11.96	0.2	100	11
MW-19-16	4Q10	7.37	1163	44.6	2.68	0.01	11.00	0.2	160	1 11
MW-19-16	4Q10 1Q11	7.37 6.75	1163 914	44.6 84.7	0.21	9.15	6.56	0.3	150	11
MW-19-16										
MW-19-16	1Q11	6.75	914	84.7	0.21	9.15	6.56	0.3	150	11
MW-19-16	1Q11 2Q11	6.75 6.96	914 1700	84.7 153	0.21 2.62	9.15 9.12	6.56 12.80	0.3 0	150 130	11 18
MW-19-16 MW-19-17	1Q11 2Q11	6.75 6.96	914 1700	84.7 153	0.21 2.62	9.15 9.12	6.56 12.80	0.3 0	150 130	11 18
	1Q11 2Q11 3Q11	6.75 6.96 7.5	914 1700 1930	84.7 153 18	0.21 2.62 2.30	9.15 9.12 9.85	6.56 12.80 20.39	0.3 0 0.1	150 130 160	11 18 25

Well ID	Event	рН	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
	3Q11	7.29	812	-135	1.00	9.50	20.45	10	100	20
MW-8	3Q08	7.04	571	-162	0.06	20	15.63	>20	260	30
	4Q08	6.99	175	-51	0.23	70	12.91	14	40	<100
	1Q09	8.08	607	-198	0.1	52.3	9.19	>10	125	30
	2Q09	7.16	268	12.3	0.1	39	8.11	>20	160	60
	3Q09	7.14	633	-165.1	0.07	13	13.34	>20	150	30
	4Q09 1Q10	8.53 7.51	442 417	-177 -193	0.07	28 48.9	13.01 8.53	>20 >20	100 160	25 16
	2Q10	7.06	440	-126.5	0.04	24.2	10.58	>20	120	13
	3Q10	7.22	573	-196	0.09	24.5	15.50	>20	200	35
	4Q10	7.53	370	-153	0.79	26.2	11.23	20	50	18
	1Q11	7.02	864	-139	0.18	36.2	8.71	20	100	20
	2Q11	7.42	833	-186	1.21	23.8	11.51	>20	110	30
	3Q11	7.03	856	-204	0	13.5	15.35	<20	2.68	30
MW-25R	2Q06	6.77	620	-102	0.47	9	14.74	3.5	75	17
INV-25K	3Q06	5.57	572	90.1	0.97	229	15.67	5	160	350
	4Q06	7.14	517	-41.2	0.25	24	11.33	1.5	90	100
	1Q07	6.80	636	-100.4	1.8	55	7.15	3	100	150
	2Q07	6.69	453	-65.8	0.35	123	14.38	3.5	40	20
	3Q07	6.98	355	-75.3	1	NM-mtr broke	18.93	0.3	75 100	15
	4Q07 1Q08	7.15 7.32	616 639	30 -79	0.6	127 47.6	6.81 7.87	2 4.5	100 150	110 12.5
	2Q08	7.20	601	-80	0.34	46	10.95	4.5	150	15
	3Q08	6.55	446	-110.7	0.24	19.2	15.71	2.5	160	70
	4Q08	7.25	227	22.7	1.66	5.9	9.6	1	70	<10
	1Q09	7.22	383	21.8	0.71	8	5.00	0.5	120	<10
	2Q09	7.11	376	-40	0.58	8	6.48	2	70	7
	3Q09 4Q09	6.77 8.11	604 726	-64 -44	0.15 0.82	19.3 121	15.93 10.94	3 2	150 70	20 20
	1Q10	7.08	455	-44 -46	3.1	45.4	3.32	2	90	25
	2Q10	6.98	515	-56.2	1.29	117	11.04	2	50	11
	3Q10	7.00	666	-48	1.62	32.5	17.07	NS	NS	NS
	4Q10	7.15	617	-6	0.75	16	7.75	0.8	70	10
	1Q11	6.85	668	-36	1.18	9.6	6.72	1	100	<10
	2Q11	7.27	841	-111	0.81	234	12.01	4	160	50
	3Q11	6.80	528	51	0	<800	18.29	4	150	50
MW-27s	2Q06*	7.74	933	183	1.66	>1000	16.65	0	80	<10
	3Q06	7.72	1437	45	0.54	247	19.44	0	200	14
	4Q06	7.59	1275	134	2.36	>1000	16.39	0	<10	20
	1Q07	7.15	1078	-10.8	4	>1000	8.31	NM - sediment	NM - sediment	NM - sediment
	2Q07 3Q07	7.09 7.24	765 1017	105.6 27	8.29 0.4	>1000 >1000	15.23 17.58	NM - sediment	NM - sediment NM - sediment	NM - sediment
	4Q07	7.24	1002	165	1	997	11.34	NM - sediment NM - sediment	NM - sediment	NM - sediment NM - sediment
	1Q08	7.15	612.7	71.5	1	186	8.41	NM - sediment	NM - sediment	NM - sediment
	2Q08	7.18	735	111.1	1	81.1	11.43	0	22.5	85
	3Q08	6.21	861	46	3.21	184	17.09	0.8	225	135
	4Q08	6.99	626	34.4	2.63	47.2	13.67	NM - ran dry	NM - ran dry	NM - ran dry
	1Q09	7.35	522	51.3	1.12	1000	10.67	0.1	200	20
	2Q09 3Q09	8.2 7.59	486 675	-71 15	1.55 0.61	62 24.8	9.08 15.29	0.6 1	150 250	15 20
	4Q09	8.31	1180	-5	5.12	108	15.29	NM	NM	NM
	1Q10	7.82	705	-84.5	3.04	107	9.37	0.3	200	20
	2Q10	7.41	669	-29.6	0.89	92	10.28	0.4	70	12
	3Q10	6.81	1147	-43	0.54	>1000	15.98	0.5	70	20
	4Q10	7.44	1091	-40	2.8	349	13.53	NM-ran dry	NM-ran dry	NM-ran dry
	1Q11	6.82 7.81	568 948	57.5 -66	2.21 4.07	NM 12.5	8.52 13.06	0.1	150 150	18 10
	2Q11 3Q11	6.83	1030	-65	0.32	144	16.66	0.6	160	18
	JOKIT	0.00	1000	55	J.UZ	177	10.00	0.0	100	10
MW-28s	2Q06	7.69	687	-478	0.11	12	14.38	>10	82	37
	3Q06	5.96	831	-101.8	0.27	14	17.69	>20	180	90
	4Q06	7.22	684	-146.8	0.04	20	15.27	>20	200	55
	1Q07	6.74	650	-176.2	2.1	12	9.75	>20	160	22
	2Q07	7.01	568 576	-138.3	0.48	36	15.36	>20	180	35 50
	3Q07 4Q07	7.1 6.86	576 634	-132.1 -120.4	0.1	9.6 7.03	16.99 11.97	>20 >20	180 170	50 22
	1Q08	7.3	492	-120.4	0.2	11.3	9.22	720 15	130	20
	2Q08	6.57	508	-52.4	0.19	9.13	12.25	>10	140	35
	3Q08	6.91	390	-65.1	0.29	9.54	15.33	>20	200	35
	3Q08	6.8	494	-92	1	339	16.5	NM	NM	NM
I	4Q08	6.94	395	-81.5	0.05	7.96	13.88	>20	170	<100

Well ID	Event	рН	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
	1Q09	7.59	466	-15.3	0.18	9.86	9.63	>20	115	22
	2Q09	6.75	392	-76.6	0.06	9	9.26	>20	150	40
	3Q09	6.93	899	-114.2	0.06	9.66	14.81	>20	160	40
	4Q09	8.52	830	-143	0.4	6	13.25	>20	70	20
	1Q10	7.00	502	-132.9	0.09	9.6	8.71	20	35	16
	2Q10	6.99	324	-109.4	0.06	9.6	11.41	14	100	13
	3Q10 4Q10	7.18 7.21	658 821	-153 -149	0.07 1.26	9 9.1	15.50 12.43	>20 20	100 100	18 25
	1Q11	6.94	778	-136	0.11	9.1	9.26	>20	70	30
	2Q11	7.18	510	-206	2.11	5.6	12.88	12	110	20
	3Q11	6.9	809	-142	0	164	15.99	14	130	25
	- Juli									
MW-28i	2Q06	7.88	756	-126	0.23	8	15	>10	135	28
	3Q06	7.59	649	-98	0.51	14	16.42	18	90	27
	4Q06	7.37	598	-146.7	0.04	13	14.82	>20	150	25
	1Q07	6.80	686	-173.3	0.2	4.9	10.7	>20	140	23
	2Q07	7.07	507	-170	0.18	17	14.9	>20	145	24
	3Q07	7.15	536	-104.7	0.1	5.7	16.19	>20	170	30
	4Q07	6.59	677	-58.2	0.26	7.44	11.96	>20	160	20
	1Q08	6.81	400.2	-100.2	0.01	6	10.31	12	135	20
	2Q08	6.65	593	-4.8	0.2	7.75	12.99	>10	170	35
	3Q08	7.34	530	-136	0.21	10	14.94	>20	170	23
	4Q08	7.28	442	-68	0.04	8.81	14.23	>20	160	<100
	1Q09	7.07	548	-34	0.13	7.67	11.19	>20	150	25
	2Q09	6.35	407	-29.1	0.05	20	9.97	>20	100	60
	3Q09	7.88	1007	-96	0.52	4	13.70	20	50	50
	4Q09	8.43	828	-146	0.13	26	13.21	20	70	18
	1Q10 2Q10	7.07 7.02	664 372	145.2	0.08	7.87	10.00	16 12	30 70	15 14
	3Q10	7.02	681	-112.1 -149	0.06 0.08	9.8 9.5	12.06 14.38	16	100	20
	4Q10	7.23	849	-151	1.53	7.38	12.79	>20	130	25
	1Q11	6.96	793	-134	0.18	9.17	10.53	>20	140	16
	2Q11	7.32	528	-206	0.44	6.8	13.65	9	120	20
	3Q11	7.3	960	-163	0	28.2	15.67	12	150	25
	00(11	7.0	000	100	Ŭ	20.2	10.07	12	100	20
MW-29s	2Q06	7.32	1021	-32	3.63	68	18.45	>10	260	95
	3Q06	6.73	1090	-109.8	0.36	10	20.63	18	310	80
	4Q06	6.85	775	-97.9	0.05	11	17.04	>10	350	65
	1Q07	6.53	902	-163.9	0.7	5.6	8.77	18	240	30
	2Q07	6.71	766	-113.8	4.03	31	18.48	>10	225	25
	3Q07	6.66	881	-13.9	0.7	9.84	21.12	>20	325	100
	4Q07	7.12	960	-35	0.2	8	13.51	>20	285	75
	1Q08	7.02	1027	-94	0.21	9.92	7.87	>10	290	22
	2Q08	6.89	935	31.2	0.27	5.9	12.22	>20	250	70
	3Q08	6.61	456	-79.7	0.08	8.09	20.04	>10	300	130
	4Q08	6.91	798	-127	0.09	6	17.6	>20	250	36
	1Q09	6.72	564	62.8	1.14	6.78	9.00	20	200	50
	2Q09	7.09	578	-89.7	0.05	8	9.13	>20	350	70
	3Q09	6.47	922	-115.1	0.07	9.51	17.91	>20	250	80
	4Q09	7.85	837	-99	0.21	4	16.00	>20	220	90
	1Q10 2Q10	7.08 6.70	596 728	-74 -98.5	0.1 0.11	7.3 8.33	7.50 10.64	NM >20	70 100	35 50
	3Q10	6.69	1008	-96.5	0.11	9.8	18.57	>20	100	35
	4Q10	7.15	935	-129	0.12	3.1	12.40	10	100	25
	1Q11	6.65	912	-94	0.12	8.8	5.45	10	50	25
	2Q11	6.77	1090	-129	1.01	1.1	13.42	18	100	35
	3Q11	6.46	848	-131	0	15.7	19.16	16	250	80
		T			-	- '		-		
MW-30s	2Q06	6.76	672	-180	0.14	34	16.81	>10	78	14
	3Q06	5.66	704	73.1	0.39	155	18.9	18	60	250
	4Q06	7.09	627	-146.1	0.01	94	13.46	>20	200	60
	1Q07	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q07	6.99	458	-159.4	0.34	213	18.55	>20	225	40
	3Q07	7.05	696	-128.7	0.3	100	19.15	>20	230	37
	4Q07	7.45	871	-50	0.8	67	7.74	>20	200	43
	1Q08	7.32	825	-158	0.12	113	4.85	>20	NM - sediment	NM - sediment
	2Q08	7.49	484	-47.6	0.2	9.42	11.43	18	160	22.5
	3Q08	6.93	378	-128.1	0.03	11.2	19.06	>10	200	70
	4Q08	6.66	468	-2.3	0.05	9.65	12.93	>20	50	20
	1Q09	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q09	6.94	956	-238	0.17	9.47	7.67	+20	80	40
	3Q09	6.93	724	-118.2	0.06	9.5	18.26	>20	225	50
		6.93 8.57 NS-frozen	906	-151	0.06 0.14 NS-frozen	9.5 9 NS-frozen	18.26 12.18 NS-frozen	>20 >20 NS-frozen	70 NS-frozen	50 25 NS-frozen

Well ID	Event	pН	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
	2Q10	6.92	633	-91.1	1.45	18	10.23	>20	100	30
	3Q10	7.00	866	-149	0.1	24.9	17.85	>20	100	25
	4Q10	7.19	854	-140	0.85	8.35	8.89	12	70	20
	1Q11	7.17	599	-81.3	0.08	9.71	7.8	13	180	30
	2Q11	7.38	916	-185	0.56	40.2	14.82	18	180	35
	3Q11	6.99	783	-162	0	54.6	19.18	7	160	35
MW-30i	2Q06	7.70	687	-194	0.33	8	15.22	5.5	75	19
	3Q06	7.52	777	-63	0.43	9	17.13	18	180	32
	4Q06	7.16	827	-144.2	0.2	42	14.2	>10	>1000	45
	1Q07	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q07	6.99	486	-146.8	0.33	41	15.23	>20	145	25
	3Q07	7.08	661	-19.8	0.4	NM-mtr broke	17.07	>20	200	29
	4Q07	7.39	889	-15	1	136	8.28	>20	200	24
	1Q08	6.7	784	-149	0.13	9.98	8.55	>20	150	18
	2Q08	7.29	581	-142	0.08	21	12.28	16	140	26
	3Q08	73.11	552	-136.0	0.04	8.56	16.62	>10	180	50
	4Q08	7.43	715	-133	0.3	6	13.57	>20	165	27
	1Q09	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q09	6.73	930	-222	0.32	5.7	8.75	20	50	32
	3Q09	7.06	682	-143.2	0.05	9.62	15.86	18	180	50
	4Q09	8.46	878	-148	0.1	20	12.95	14	100	18
	1Q10	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q10	7.06	605	-120.9	0.07	7.31	9.61	14	70	22
	3Q10	7.1	806	-160	0.33	21	15.55	16	70	20
	4Q10	7.49	893	-140	1.08	9.8	10.82	14	70	16
	1Q11	7.19	620	-12	0.1	7.88	9.18	15	140	25
	2Q11	6.99	846	-176	0.88	42.7	12.93	12	150	35
	3Q11	6.88	781	-153	0.28	85.4	16.85	12	160	25
MW-30d	2Q06	5.35	449	-131	0.3	10	14.45	2	100	30
	3Q06	7	458	-44	2.49	15	15.07	2.5	70	70
	4Q06	7.29	637	-99	0.18	33	13.39	5	130	17
	1Q07	NS-frozen			NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q07	7.03	340	-95.7	0.38	69	14.51	3.5	115	12
	3Q07	7.24	401	22.6	0.8	NM-mtr broke	14.73	3	130	13
	4Q07	7.05	500	128	0.1	80	10.02	0.4	100	<10
	1Q08	6.8	487	1	0.45	16.3	9.19	1.5	130	<10
	2Q08	7.24	504	-62	0.32	18	12.87	2	125	14
	3Q08	7.3	328	-112.3	0.2	9.41	15.26	2.5	115	14
	4Q08	7.48	532	-114	0.19	12	12.59	6	125	13
	1Q09	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q09	7.03	608	-197	0.18	14	10.87	3	80	13
	3Q09	7.19	450	-110	0.22	14.5	13.79	2	130	13
	4Q09	8.68	635	-119	0.18	9	12.61	2	50	11
	1Q10	7.25	508	-87	0.2	9.2	10.25	2	150	11
	2Q10	7.17	377	-56.3	0.24	23.2	10.87	2	40	10
	3Q10	7.41 7.69	492	-65	7.8	51 7.27	13.2 12.2	3	40 50	20 12
	4Q10		758 584	-89 108	6.18	8.71		2		50
	1Q11 2Q11	5.48 7.33	540	-53	0.25 8.11	31.2	11.9 12.79	0.4	100 110	12
	3Q11	6.75	637	-53 -56	7.89	70.2	15.19	2	180	14
88187.04	0000	40.47	4 400	400	0.51	4000	45.74		005	
MW-31s	2Q08	12.47	1,499	-192	0.51	>1000	15.74	1	225	0
	3Q08	6.54	2,130	-27	0.97	381	21.79	4.5	1000	400
	4Q08	8.13	488	34.7	0.16	7.64	12.99	NM-No Water	NM-No Water	NM-No Water
	1Q09	10.98	567	71	0.43	15	5.45	0.1	200	0
	2Q09	8.68	540	-127.6	0.16	28	6.61	0.4	225	18
	3Q09	10.67	795 1019	-144.1	0.24 0.54	6.22	18.68	0.5 >20	170 100	NM-No Water
	4Q09	9.03	670	-72		37	13.41 4.42			NM-No Water
	1Q10	11.57 11.26	905	-148 -116.6	2.26 1.65	79.4 3.98	10.38	0	140 200	0
	2Q10	_								NM-No Water
	3Q10 4Q10	8.86	900	-272 13.7	0.38	>1000	18.80	NM-No Water	NM-No Water	
	4Q10 1Q11	7.46 9.48	959 497	13.7 32	0.65 0.37	3.91 2.77	9.10 5.37	6 7	125 90	16 0
	ועוו		922							
	2011		4//	-211	3	15.2	12.43 19.35	0.2	140	0 >100
	2Q11 3Q11	9.7 7.04	1070	-133	0	6.9	19.33	0	150	>100
	3Q11	7.04	1070							
MW-32s	3Q11 2Q08	7.04 6.9	1070 1,105	-86	0.33	109	12.11	NM-No Water	NM-No Water	NM-No Water
MW-32s	3Q11 2Q08 3Q08	7.04 6.9 6.47	1,105 1,169	-86 -149.6	0.33 0.07	109 15.9	12.11 22.56	NM-No Water NM-No Water	NM-No Water NM-No Water	NM-No Water
MW-32s	3Q11 2Q08 3Q08 4Q08	7.04 6.9 6.47 6.68	1070 1,105 1,169 799	-86 -149.6 -20.4	0.33 0.07 0.41	109 15.9 14	12.11 22.56 14.72	NM-No Water NM-No Water NM-No Water	NM-No Water NM-No Water NM-No Water	NM-No Water NM-No Water NM-No Water
MW-32s	3Q11 2Q08 3Q08 4Q08 1Q09	7.04 6.9 6.47 6.68 6.94	1,105 1,169 799 665	-86 -149.6 -20.4 42.1	0.33 0.07 0.41 0.32	109 15.9 14 8	12.11 22.56 14.72 5.60	NM-No Water NM-No Water NM-No Water NM-No Water	NM-No Water NM-No Water NM-No Water NM-No Water	NM-No Water NM-No Water NM-No Water NM-No Water
MW-32s	3Q11 2Q08 3Q08 4Q08	7.04 6.9 6.47 6.68	1070 1,105 1,169 799	-86 -149.6 -20.4	0.33 0.07 0.41	109 15.9 14	12.11 22.56 14.72	NM-No Water NM-No Water NM-No Water	NM-No Water NM-No Water NM-No Water	NM-No Water NM-No Water NM-No Water

Well ID	Event	рН	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
	4Q09	7.77	1276	-53	0.3	169	13.04	NM-No Water	NM-No Water	NM-No Water
	1Q10	6.68	687	-82	0.45	10.3	3.89	>20	200	30
	2Q10	6.64	825	-106.0	0.27	5.38	10.50	>20	200	30
	3Q10	6.37	974	-134.0	0.56	221	19.23	NM-No Water	NM-No Water	NM-No Water
	4Q10	6.99	837	-85.7	0.32	17.7	8.63	>20	225	35
	1Q11	6.92	734	8.6	0.45	8.4	5.30	>20	250	35
	2Q11	6.77	1230	-153.0	3.23	12.2	12.92	12	350	70
	3Q11	6.6	1190	-144.0	0	45.5	19.58	7	250	50
MW-33s	2Q08	7.29	650	-74	0.77	682	12.98	18	180	70
	3Q08	6.06	616	NM	2.55	148	26.4	>20	310	200
	4Q08	6.44	607	5.7	0.21	14	13.1	NM-No Water	NM-No Water	NM-No Water
	1Q09	5.2	567	168.5	0.37	38	5.29	>20	225	60
	2Q09	6.79	577	-39.4	0.61	38.6	5.86	>20	350	80
	3Q09	6.56	1226	-82.7	0.18	16.9	17.63	>20	500	150
	4Q09	7.79	1381	-46	2.96	314	14.13	>20	400	35
	1Q10	6.79	776	-96.7	0.93	52.3	4.20	>20	300	25
	2Q10	6.69	1055	-82.1	3.19	32.9	9.50	>20	300	50
	3Q10	6.36	910	-80	0.16	30.9	18.66	NM-No Water	NM-No Water	NM-No Water
	4Q10	7.01	735	86.5	0.95	33.6	9.29	10	250	30
	1Q11	7.04	609	13.8	1.01	28.1	5.28	9	225	35
	2Q11	6.98	1130	-121	2.44	29.7	11.97	16	350	70
	3Q11	6.64	1330	-84	0	59.8	18.31	18	300	50
MW-34s	2Q08	7.01	794	-111	0.51	7	14.84	NM-No Water	NM-No Water	NM-No Water
	3Q08	6.4	1240	-136.3	0.15	12.1	20.19	NM-No Water	NM-No Water	NM-No Water
	4Q08	6.62	686	50.7	0.48	13.5	14.83	NM-No Water	NM-No Water	NM-No Water
	1Q09	7.33	557	23.9	0.27	9	5.90	NM-No Water	NM-No Water	NM-No Water
	2Q09	7.32	488	-82.5	0.44	10	6.57	8	300	30
	3Q09	6.51	761	-89	0.36	6.08	17.40	NM-No Water	NM-No Water	
	4Q09	7.66	966	-30	2.72	31	13.15	NM-No Water		NM-No Water
	1Q10	6.74	500	-58	0.53	13.1	4.31	20	70	20
	2Q10	6.58	576	-74.5	0.39	26.7	9.57	>20	250	35
	3Q10	6.16	701	-70	1.00	32.7	18.57	NM-No Water	NM-No Water	
	4Q10	6.87	672	-6.4	0.42	5.38	8.97	0.2	120	16
	1Q11	6.64	522	13.2	0.86	4.87	5.43	0.1	160	16
	2Q11	6.76	957	-131	3.20	1	12.35	7	300	50
	3Q11	6.58	970	-99	0.00	26.3	19.59	4.5	250	40
MW-35s	2Q08	6.78	917	-56	0.37	>1000	11.51	>20	310	70
·	3Q08	6.35	736	-55	1.5	65	19.23	>20	260	50
	4Q08	6.87	848	-30.2	1.35	38.5	14.18	NM-No Water	NM-No Water	NM-No Water
	1Q09	7.28	607	3.3	0.15	59	5.81	>20	225	30
	2Q09	7.36	683	-121.9	0.21	53	6.40	>20	300	30
	3Q09	6.65	896	-108.2	0.2	22.2	17.49	>20	275	80
	4Q09	8.14	1109	-56	3.69	29	13.15	>20	350	30
	1Q10	6.72	556	-72	0.4	141	4.09	>20	200	25
	2Q10	6.48	710	-59.5	0.24	46.5	10.45	>20	250	30
	3Q10	6.51	1006	-93	0.22	840	18.58	NM-No Water	NM-No Water	NM-No Water
	4Q10 1Q11	6.85 6.71	557 542	-59.8 15.3	0.37	27.1 11.4	8.72 5.71	>20 >20	200 160	22 25
	2Q11	6.58	1050	-61	3.9	30.4	12.91	>20	160	50
	3Q11	6.6	1060	-93	0	66.1	19.29	>20	180	50
						_				
			l						l	

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05.

Groundwater monitoring wells MW-19, MW-19-1, MW-19-2, MW-19-3, MW-19-4, MW-19-5, MW-19-6, MW-19-7, MW-19-10, MW-19-11, GEI-2S, and GEI-2I were abandoned in October 2009.

(1) Laboratory analyzed for alkalinity due to destroyed field kits.

NS = Not Sampled

NM = Not Measured

<sup>\*\*</sup> Additional field MNA parameters not required for MW-19-9D.

<sup>&</sup>lt;sup>L</sup> Lower Grab Sample

U Upper Grab Sample

 $<sup>^{\</sup>star}$  Well was not stabalized due to well going dry.

# Table 5 DAYCO CORPORATION/L.E. CARPENTER SUPERFUND SITE Borough of Wharton, Morris County, New Jersey Surface Water Monitoring Data

MONITORING WELLS	1		_	A	NALYI	ICAL PARAMET	EKS		-		his-2-	thylhexylphtha
WICHITORING WELLS	SAMPLE DATE	QUARTER		Benzene		Ethylbenzene		Toluene		Total Xylenes	DI3-2-I	(DEHP)
APPLICABLE BACKGROUND C				ug/l 0.5		ug/l 0.5	ug/l ug/l 0.5 1.5		ug/l		ug/l 0.95	
OR BELOW DE	CTION LIMIT.	I.J.A.C. 7:9B-1.5 (d)6iii <sup>(4)</sup>		0.0								
SW-D-1	8-Apr-05	2Q05	<	0.2	<	0.20	<	0.20	<	0.60	<	1.0
	26-Jul-05	3Q05	<	0.2	<	0.2	J	0.5	<	0.6	<	1.0
	26-Oct-05	4Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	J   <	<b>2.0</b> 1.0
	19-Jun-06 11-Sep-06	2Q06 3Q06	<	0.2	<	0.2	J	0.2	<	0.6	Ĵ	11.0
	9-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	7-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0 7.3
	10-Sep-07 4-Dec-07	3Q07 4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.18	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0		4.9	<	1.2
Dilution factor for DEHP 1.03	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.33	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.3
	27-Oct-08	4Q08 1Q09	<	0.2 0.9	<	0.2	<	0.2	<	0.6	<	0.9 <b>12.0</b>
	12-Jan-09 6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	2.0
	21-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	1.0
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	1.0
	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5	<	1.5		51.0
	19-Apr-10	2Q10 3Q10	<	0.5 0.5	<	0.50	<	0.5	<	1.5 1.5	<	0.95 <b>15</b>
	23-Aug-10 9-Sep-10	3Q10 <sup>(5)</sup>	<	0.5	<	0.5	<	0.5	<	1.5	0.00	NS
	7-Dec-10	4Q10	<	0.5	<	0.5	<	0.5	<	1.5	1338	1
	14-Mar-11	1Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	0.99
	23-May-11	2Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	16-Aug-11	3Q11	<	0.5	<	0.5	<	0.5	<	1.5		5.9
SW-D-2	HE SHEET THE						++					
SW-D-2	8-Apr-05	2Q05		NS		NS		NS		NS	1 100 1 100	NS
	26-Jul-05	3Q05	<	0.2	J	0.5	<	0.2		6.1	7 24	38.0
* 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1	26-Oct-05	4Q05	<	0.2	J	0.6	<	0.2	J	2.0	<	1.0
	27-Feb-06	1Q06	<	0.2	J	0.8	<	0.2	J <	2.7 0.6	J	27.0 1.0
×	19-Jun-06 19-Jun-06	2Q06 2Q06D	<	0.2	< <	0.2	<	0.2	<	0.6	J	2.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	2.0
-	9-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	1.0
	7-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	100	11.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0 3.0
	10-Sep-07	3Q07 4Q07	<	1.0	<	1.0	<	5.0 5.0	<	3.0	1 200	1.5
Dilution factor for DEHP 1.11	4-Dec-07 18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	+	4.4	<	1.1
Dilution factor for DEHP 1.18	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	1.0	7.1
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6		13 230
Dilution factor for DEHP 5	12-Jan-09	1Q09 2Q09	<	0.9	< <	0.8	<	0.8	<	0.9	J	1.0
	6-Apr-09 6-Apr-09	2Q09D	<	0.9	<	0.8	<	0.8	<	0.9	J	1.0
	21-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	4.0
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	2.0
	10-Nov-09	4Q09D	<	0.9	<	0.8	<	0.8	<	0.9	J	5.0 18.0
	13-Feb-10	1Q10 2Q10	<	0.5 0.5	<	0.5 <b>0.75</b>	<	0.5	-   <	1.5 <b>1.6</b>	<	0.95
	19-Apr-10 19-Apr-10	2Q10D	<	0.5		0.78	<	0.5		1.7	<	0.95
	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5		23
	9-Sep-10	3Q10 <sup>(5)</sup>	<	0.5	<	0.5	<	0.5	<	1.5		NS
	7-Dec-10	4Q10	<	0.5	<	0.5	<	0.5	<	1.5		4
	12-Jul-10	4Q10D	<	0.5 0.5	<	0.5 0.5	<	0.5	<	1.5 1.5	100 to 10	5.0 1.8
	14-Mar-11 23-May-11	1Q11 2Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	1.0
	23-May-11 23-May-11	2Q11D	<	0.5	<	0.5	<	0.5	<	1.5	<	1.0
	16-Aug-11	3Q11	<	0.5	<	0.5	<	0.5	<	1.5		8.2
	118,44-21		$\Box$				+-				+-	
SW-D-3	9 And 0F	2Q05	<	0.2		21.0	<	0.2	++	79.0	J	2.0
	8-Apr-05 26-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	J	1.1	J	7.0
	26-Oct-05	4Q05	<	0.2	J	0.4	<	0.2	J	1.4	<	1.0
TE.	27-Feb-06	1Q06	<	0.2	П	1.1	<	0.2		3.9	J	6.0
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	3.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6 0.6	J	1.0 3.0
	11-Sep-06 9-Nov-06	3Q06D 4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	7-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	7.5	3.3
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		1.6
Dilution factor for DEHP 1.1	4-Dec-07	4Q07	<	1.0	< <	1.0	< <	5.0	<	3.0 3.8	< <	1.1
Dilution factor for DEHP 1.05	18-Feb-08 18-Feb-08	1Q08 1Q08D	<	1.0	<	1.0	<	5.0 5.0	+	3.8	<	1.0
Dilution factor for DEHP 1.25	18-Feb-08 5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
DIRECTOR INCIDENT IN 1.40	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0

# Table 5 DAYCO CORPORATION/L.E. CARPENTER SUPERFUND SITE Borough of Wharton, Morris County, New Jersey Surface Water Monitoring Data

MONITORING WELLS			_	A	NALY	TICAL PARAMET	EKS		_		hie 2	Ethylhexylphtha
MONITORING WELLS	SAMPLE DATE	QUARTER		Benzene		Ethylbenzene		Toluene		Total Xylenes	DIS-2-	tnyinexyipntna (DEHP)
		UNITS		ug/l		ug/l		ug/l		ug/l		ug/l
APPLICABLE BACKGROUND O OR BELOW DE		). CONCENTRATION AT I.J.A.C. 7:9B-1.5 (d)6iii <sup>(4)</sup>		0.5		0.5		0.5		1.5		0.95
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	12-Jan-09	1Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	6-Apr-09	2Q09 3Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	1.0
	21-Jul-09 10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5	<	1.5		3.0
	19-Apr-10	2Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5		2.3
w s	9-Sep-10	3Q10 <sup>(5)</sup>	<	0.5	<	0.5	<	0.5	<	1.5		NS
	7-Dec-10	4Q10	<	0.5	<	0.5	<	0.5	< <	1.5	<	<b>1.3</b> 0.95
	14-Mar-11	1Q11 2Q11	<	0.5	<	0.5	<	0.5	<	1.5	-	1.0
	23-May-11 16-Aug-11	3Q11	<	0.5	<	0.5	<	0.5	<	1.5	1 100	5.4
	10-Aug-11	OQTI		0.0		0.0		12.72 A. J. T.				
SW-D-4	G. G. Maria											
	20-Jun-06	2Q06	<	0.2	<	0.2	J	0.4	<	0.6	J	3.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6 <b>0.6</b>	J	<b>2.0</b> 0.9
	9-Nov-06 7-Feb-07	4Q06 1Q07	<	0.2 1.0	J	2.0	< <	5.0	J	3.8		3.3
	7-Feb-07 25-Jun-07	1Q07 2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		1.0
	4-Dec-07	4Q07	<	1.0		1.4	<	5.0	<	3.0	<	1.0
ilution factor for DEHP 1.08	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	-	4.1	<	1.1
ilution factor for DEHP 1.08	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	< <	3.0	<	1.1 9.2
	21-Jul-08	3Q08	<	0.2	<	0.2	<	5.0 0.2	<	0.6	<	0.9
	27-Oct-08 12-Jan-09	4Q08 1Q09	<	0.2	+	21.0	<	0.8		20		29
-	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	2.0
-	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	2.0
	20-Jul-09	3Q09D	<	0.9	<	0.8	<	0.8	<	0.9	J	2.0
La Company of the Com	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	1.0 150
Dilution factor for DEHP 2	13-Feb-10	1Q10 1010D	< <	0.5 0.5		0.96 0.91	<	0.5	<	1.5 1.5		43
	13-Feb-10 19-Apr-10	1Q10D 2Q10	<	0.5	+	15	<	0.5	+	48	<	0.95
	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5		24
	23-Aug-10	3Q10D	<	0.5	<	0.5	<	0.5	<	1.5	198	17
	9-Sep-10	3Q10 <sup>(5)</sup>	<	0.5	<	0.5	<	0.5	<	1.5		NS
	9-Sep-10	3Q10D <sup>(5)</sup>	<	0.5	<	0.5	<	0.5	<	1.5		NS
	6-Dec-10	4Q10	<	0.5	<	0.5	<	0.5	<	1.5		2
	14-Mar-11	1Q11	<	0.5		2.0	<	0.5		4.4	<	0.98
	14-Mar-11	1Q11D	<	0.5	+-	2.1	<	0.5	-	<b>4.6</b> 1.5	<	0.95 <b>1.1</b>
	23-May-11	2Q11 3Q11	<	0.5	< <	0.5 0.5	<	0.5	< <	1.5		9.10
	16-Aug-11	3011	+	0.5	+	0.0		0.0		1.0	11-27	
SW-D-5							1 12					
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	10.0
	6-Nov-06	4Q06	<	0.2	J	0.2	<	0.2	J	0.8	<	0.9 1.0
	7-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	< <	3.0	<	1.0
	25-Jun-07	2Q07 3Q07	<	1.0	<	1.0	<	5.0 5.0	<	3.0	1	3.4
	10-Sep-07 3-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.1	3-Dec-07	4Q07D	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
Dilution factor for DEHP 1.03	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
ilution factor for DEHP 1.25	5-May-08	2Q08	<	1.0	<	1.0 1.0	<	5.0 5.0	< <	3.0	<	1.2 1.0
	21-Jul-08 27-Oct-08	3Q08 4Q08	<	1.0 0.2	< <	0.2	<	0.2	<	0.6	Ĵ	4.0
	27-Oct-08 12-Jan-09	1Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	2.0
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9 0.94
	13-Feb-10	1Q10 2Q10	<	0.5 0.5	<	<b>0.59</b> 0.5	<	0.5 0.5	<	1.5 1.5	<	0.94
	19-Apr-10 23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5		1.5	100	4.6
	9-Sep-10	3Q10 <sup>(5)</sup>	<	0.5	<	0.5	<	0.5	<	1.5		NS
	6-Dec-10	4Q10	<	0.5	· <	0.5	<	0.5	<	1.5	<	1.0
	14-Mar-11	1Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	23-May-11	2Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	16-Aug-11	3Q11	<	0.5	<	0.5	<	0.5	<	1.5		0.95
DRC-1							+		+		++	
DRC-1	20-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	J	1.2	<	0.9
						7.5	$\Box$		$\Box$			
			П				+1		+			
DRC-2	44.0	2000		0.0	<	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06 4Q06	<	0.2		0.5	<	0.2	Ĵ	1.9	<	0.9
	6-Nov-06 6-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	~	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	3-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
		4001	1 7 1	1.0	1 7 1	1.0						1.0

# Table 5 DAYCO CORPORATION/L.E. CARPENTER SUPERFUND SITE Borough of Wharton, Morris County, New Jersey Surface Water Monitoring Data

			ANALYTICAL PARAMETERS						1 2.50. 11			
MONITORING WELLS	SAMPLE DATE	QUARTER		Benzene		Ethylbenzene		Toluene		Total Xylenes	bis-2-	Ethylhexylphtha (DEHP)
		UNITS		ug/l		ug/l		ug/l		ug/l		ug/l
PPLICABLE BACKGROUND C		. CONCENTRATION AT .J.A.C. 7:9B-1.5 (d)6iii <sup>(4)</sup>		0.5		0.5		0.5		1.5		0.95
Dilution factor for DEHP 1.18	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	< <	1.2
	21-Jul-08	3Q08	<	1.0 0.2	< <	0.2	<	5.0 0.2	<	3.0 0.6	<	0.9
	27-Oct-08 12-Jan-09	4Q08 1Q09	<	0.2	<	0.8	<	0.8	<	0.9	<	1.0
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
× 1	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5	<	1.5	< <	0.95 0.95
	19-Apr-10	2Q10	<	0.5	<	0.5	<	0.5 0.5	< <	1.5	<	0.98
	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5		NS
	9-Sep-10	3Q10 <sup>(5)</sup> 4Q10	<	0.5 0.5	<	0.5	<	0.5		1.5	<	0.95
	6-Dec-10 14-Mar-11	1Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	23-May-11	2Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	16-Aug-11	3Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	Part of the second seco											
SW-R-1								real phones are	-	21. 1. C. 20.2011-0	2024	
	20-Apr-05 <sup>(1)</sup>	2Q05	<	0.2		17.0	J	0.8	++	99.0	J	2.0
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	J <	1.0 1.0
	27-Oct-05	4Q05	<	0.2	<	0.2	<	0.2	< J	0.6 1.4	< <	0.9
	27-Feb-06	1Q06	<	0.2	J	0.3	<	0.2	J <	0.6	<	1.0
	19-Jun-06	2Q06	< <	0.2	< <	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06 4Q06	<	0.2	J	0.2	<	0.2	j	1.1	<	1.0
	6-Nov-06 6-Feb-07	4Q06 1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	6-Feb-07 25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		1.3
	3-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	< .	1.0
ilution factor for DEHP 1.11	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
ilution factor for DEHP 1.18	5-May-08	2Q08	<	1.0		1.2	<	5.0		5.9	<	1.2
	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0 0.9
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	< <	0.6 0.9	< <	0.9
	12-Jan-09	1Q09	<	0.9	<	0.8	< <	0.8	<	0.9	<	0.9
	6-Apr-09	2Q09 3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	20-Jul-09 10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	10-Nov-09 13-Feb-10	1Q10	<	0.5		0.55	<	0.5		2.8	<	0.95
	19-Apr-10	2Q10	<	0.5		0.64	<	0.5		2.5	<	0.95
	23-Aug-10	3Q10	<	0.5	<	0.50	<	0.5	<	1.5	<	0.95
	9-Sep-10	3Q10 <sup>(5)</sup>	<	0.5	<	0.50	<	0.5	<	1.5		NS
	6-Dec-10	4Q10	<	0.5	<	0.50	<	0.5	<	1.5	<	0.95
	14-Mar-11	1Q11	<	0.5	<	0.50	<	0.5	<	1.5	<	0.95
	23-May-11	2Q11	<	0.5	<	0.50	<	0.5	<	1.5	<	0.95
	16-Aug-11	3Q11	<	0.5	<	0.50	<	0.5	<	1.5	<	0.95
									-			
SW-R-2				110		NO	-	NS		NS	_	NS
	20-Apr-05	2Q05	-	NS 0.2	<	0.2	<	0.2	<	0.6	<	0.9
	25-Jul-05	3Q05	<	0.2	~	0.2	<	0.2	<	0.6	<	0.9
	27-Oct-05 27-Feb-06	4Q05 1Q06	<	0.2	Ĵ	0.5	<	0.2	Ĵ	2.3	<	1.0
	27-Feb-06 19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	19-Jun-06 11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	6-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Nov-06	4Q06D	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0 1.7
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	< <	3.0 3.0	<	1.7
	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
Dilution factor for DEHP 1.11	18-Feb-08	1Q08 2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
Dilution factor for DEHP 1.14	5-May-08 21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	21-Jul-08 27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	12-Jan-09	1Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0 0.9
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	< <	0.95
	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5 0.5	<	1.5 2.0	< <	0.95
	19-Apr-10	2Q10	<	0.5	<	<b>0.5</b> 0.5	<	0.5	<	1.5	<	0.95
	23-Aug-10	3Q10	<	0.5	_		<		<	1.5	++	NS
1 v	9-Sep-10	3Q10 <sup>(5)</sup>	<	0.5	<	0.5	<	0.5	<	1.5	<	0.96
	6-Dec-10	4Q10 1011	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	14-Mar-11	1Q11 2011	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	23-May-11	2Q11 3Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	16-Aug-11	3411	++	0.0	+	0.0	++	5.5				
SW-R-3			+									
24A-14-9	20-Apr-05	2Q05		NS		NS		NS		NS		NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
			_			0.0	1 - T	0.0	1 -1	0.6	1 - 1	1.0
	19-Jun-06	2Q06 3Q06	<	0.2	<	0.2	<	0.2	< <	0.6	<     J	2.0

### Table 5

# DAYCO CORPORATION/L.E. CARPENTER SUPERFUND SITE Borough of Wharton, Morris County, New Jersey Surface Water Monitoring Data

				A	NALYT	ICAL PARAME	TERS					
MONITORING WELLS	SAMPLE DATE	QUARTER		Benzene		Ethylbenzene		Toluene		Total Xylenes	bis-2-	Ethylhexylphtha (DEHP)
		UNITS	1	ug/l		ug/l		ug/l	-	ug/l		ug/l
APPLICABLE BACKGROUND C OR BELOW DE				0.5		0.5		0.5		1.5		0.95
	6-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0 3.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07D	<	1.0 1.0	<	1.0	< <	5.0 5.0	<	3.0	+	3.9
	10-Sep-07 4-Dec-07	3Q07 4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.11	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
Dilution factor for DEHP 1.05	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.25	5-May-08	2Q08D	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
Dilution factor for DEHP 10	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0		150
	21-Jul-08	3Q08R		NA		NA	$\perp$	NA	+	NA	150	26
	15-Aug-08	3Q08 <sup>(2)</sup>	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	15-Aug-08	3Q08 <sup>(3)</sup>	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9 1.0
	27-Oct-08	4Q08D	<	0.2	< <	0.2	< <	0.8	<	0.8	<	1.0
	12-Jan-09 12-Jan-09	1Q09 1Q09D	<	0.9	<	0.8	<	0.8	<b>-</b>	0.9	<	1.0
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
9 9 9	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	19-Apr-10	2Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	9-Sep-10	3Q10 <sup>(5)</sup>	<	0.5	<	0.5	<	0.5	<	1.5		NS
	6-Dec-10	4Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	14-Mar-11	1Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	23-May-11	2Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95 0.95
	16-Aug-11	3Q11	<	0.5	<	0.5	<	0.5	-	1.5	+	0.93
OW B 4									+		++-	
SW-R-4	20-Apr-05	2Q05		NS	+	NS		NS		NS		NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	6-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		19.0
	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.11	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0 5.0	< <	3.0	<	1.0
	5-May-08 21-Jul-08	2Q08 3Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	21-Jul-08	3Q08D	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	12-Jan-09	1Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	19-Apr-10	2Q10 2Q10	<	0.5 0.5	< <	0.5 0.5	< <	0.5	<	1.5	<	0.95
	23-Aug-10	3Q10 3Q40 <sup>(5)</sup>	-			0.5		0.5	<	1.5	+ +	NS
	9-Sep-10	3Q10 <sup>(5)</sup> 4Q10	<	0.5	< <	0.5	< <	0.5	<	1.5	<	0.95
	6-Dec-10 14-Mar-11	1Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	23-May-11	2Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	16-Aug-11	3Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
SW-R-6									$\Box$			
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	< <	0.9
	6-Nov-06	4Q06	<	0.2	<	1.0	<	5.0	<	3.0	<	1.0
	6-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07 3Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07 4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.14	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
Dilution factor for DEHP 1.11	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	12-Jan-09	1Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0 0.9
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	< <	0.9
	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	10-Nov-09 13-Feb-10	4Q09 1Q10	<	0.5	<	0.5	<	0.5	-	1.5	<	0.95
	13-Feb-10 19-Apr-10	2Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.99
	9-Sep-10	3Q10 <sup>(5)</sup>	<	0.5	<	0.5	<	0.5	<	1.5		NS
	7-Dec-10	4Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
				0.0	-			0.0				

#### Table 5

#### DAYCO CORPORATION/L.E. CARPENTER SUPERFUND SITE Borough of Wharton, Morris County, New Jersey Surface Water Monitoring Data

			A	NALYI	ICAL PARAMET	EKO					
SAMPLE DATE QUARTER			Benzene		Ethylbenzene		Toluene	Т	otal Xylenes	bis-2-	Ethylhexylphthalat (DEHP)
	UNITS	1	ug/l	ug/l		ug/l		ug/l		ug/l	
			0.5		0.5		0.5		1.5		0.95
23-May-11	2011	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
16-Aug-11	3Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
									X A DE LOS		
18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<		<	1.0
5-May-08	2Q08	<	1.0	<	1.0	<		<		-	1.0
21-Jul-08	3Q08	<	1.0	<	1.0	<		<		_	1.0
	4Q08	<	0.2	<	0.2	<	0.2	<		<	0.9
10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<		<	1.0
13-Feb-10	1Q10	<	0.5	<	0.5	<		<		_	1.0
19-Apr-10	2Q10	<	0.5	<	0.5	. <		<		_	1.0
23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	1.0
	3Q10 <sup>(5)</sup>	<	0.5	<	0.5	<	0.5	<	1.5		NS
9-Dec-10	4Q10	<	0.5	<	0.5		0.5	<	1.5		16.0
		<	0.5	<	0.5	<	0.5	<	1.5	<	1.0
	3Q11	<	0.5	<	0.5	<	0.5	<	1.5	<	1.0
	18-Feb-08 5-May-08 21-Jul-08 27-Oct-08 10-Apr-10 19-Apr-10 23-Aug-10 9-Sep-10	UNITS ICENTRATION (SW-R-6). CONCENTRATION AT TON LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii (4)  23-May-11 2Q11 16-Aug-11 3Q11  18-Feb-08 1Q08 5-May-08 2Q08 21-Jul-08 3Q08 27-Oct-08 4Q08 10-Nov-09 4Q09 13-Feb-10 1Q10 19-Apr-10 2Q10 23-Aug-10 3Q10 9-Sep-10 3Q10(5) 9-Dec-10 4Q10 25-May-11 2Q11	UNITS ICENTRATION (SW-R-6). CONCENTRATION AT TON LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii (4)  23-May-11 2Q11 < 16-Aug-11 3Q11 <  18-Feb-08 1Q08 < 5-May-08 2Q08 < 21-Jul-08 3Q08 < 27-Jul-08 3Q08 < 10-Nov-09 4Q09 < 13-Feb-10 1Q10 < 13-Feb-10 1Q10 < 19-Apr-10 2Q10 < 23-Aug-10 3Q10 < 9-Sep-10 3Q10(5) < 9-Dec-10 4Q10 < 25-May-11 2Q11 <	UNITS   Ug/l	UNITS   Ug/l	UNITS   ug/l   ug/l   ug/l     ug/l     ug/l       ug/l	UNITS   Ug/l   Ug/l	UNITS   ug/l   ug/l	UNITS   Ug/l   Ug/l	UNITS   Ug/l   Ug/l	CENTRATION (SW-R-6). CONCENTRATION AT N.J.A.C. 7:9B-1.5 (d)6iii (4)   0.5   0.5   0.5   0.5   1.5   0.5

LEGEND

NA = Not Applicable

NS = Not Sampled

D = Duplicate sample

R = Sample was re-run by the laboratory

B: Analyte also detected in blank

J: Estimated value. Value is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

Concentration exceeds NJSWQS (SW-R-6 concentrations)

38.0

ug/L = micrograms per liter

Surface Water Quality Standard Reference: N.J.A.C 7:9B October 2006.

(Dover) - Washington Pond outlet downstream to Rt. 46 bridge Cat 1 FW2-TM(C1)

#### NOTES

= Detection limit is elevated due to interference from other parameter detections. Laboratory will be contacted to lower benzene detection limit to be below the NJSWQS.

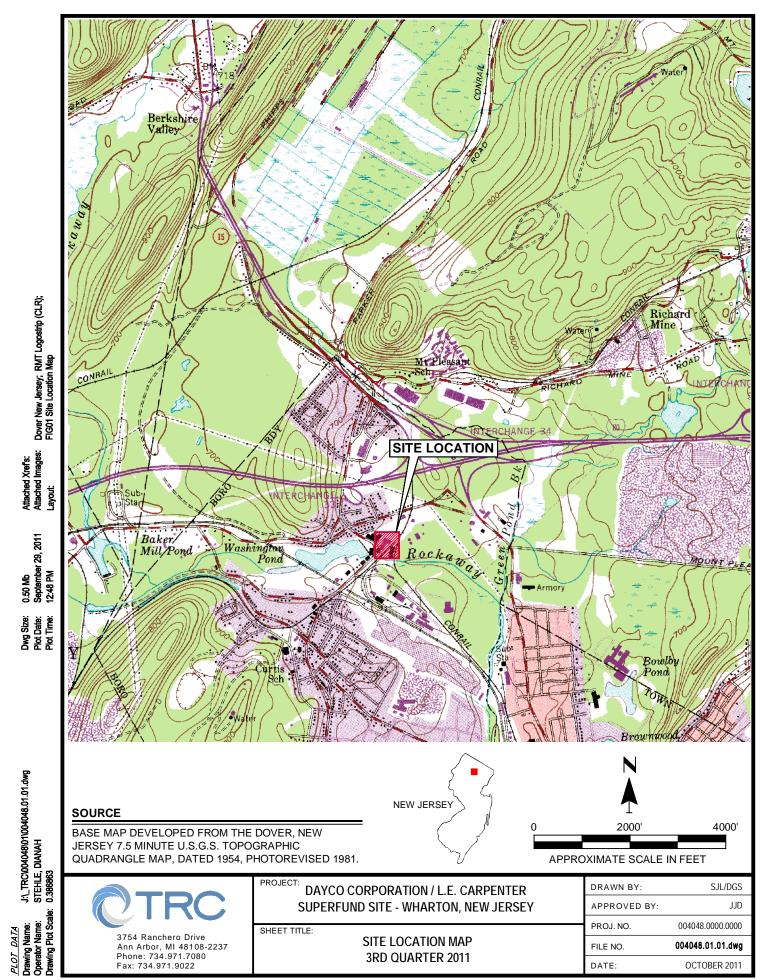
(1) One surface water sample was collected near the edge of the river immediately adjacent to the location of absorbent booms that were placed in order to prevent any migration into the river of sheen observed on top of quiescent water ponded within the wetland area. Due to bottle mislabeling and laboratory error, each of the five river sample bottles (R-1 through R-5) were analyzed individually instead of as a whole set. The highest concentration detected in any of the five laboratory results for the river sample are listed under SW-R-1 for April 2005.

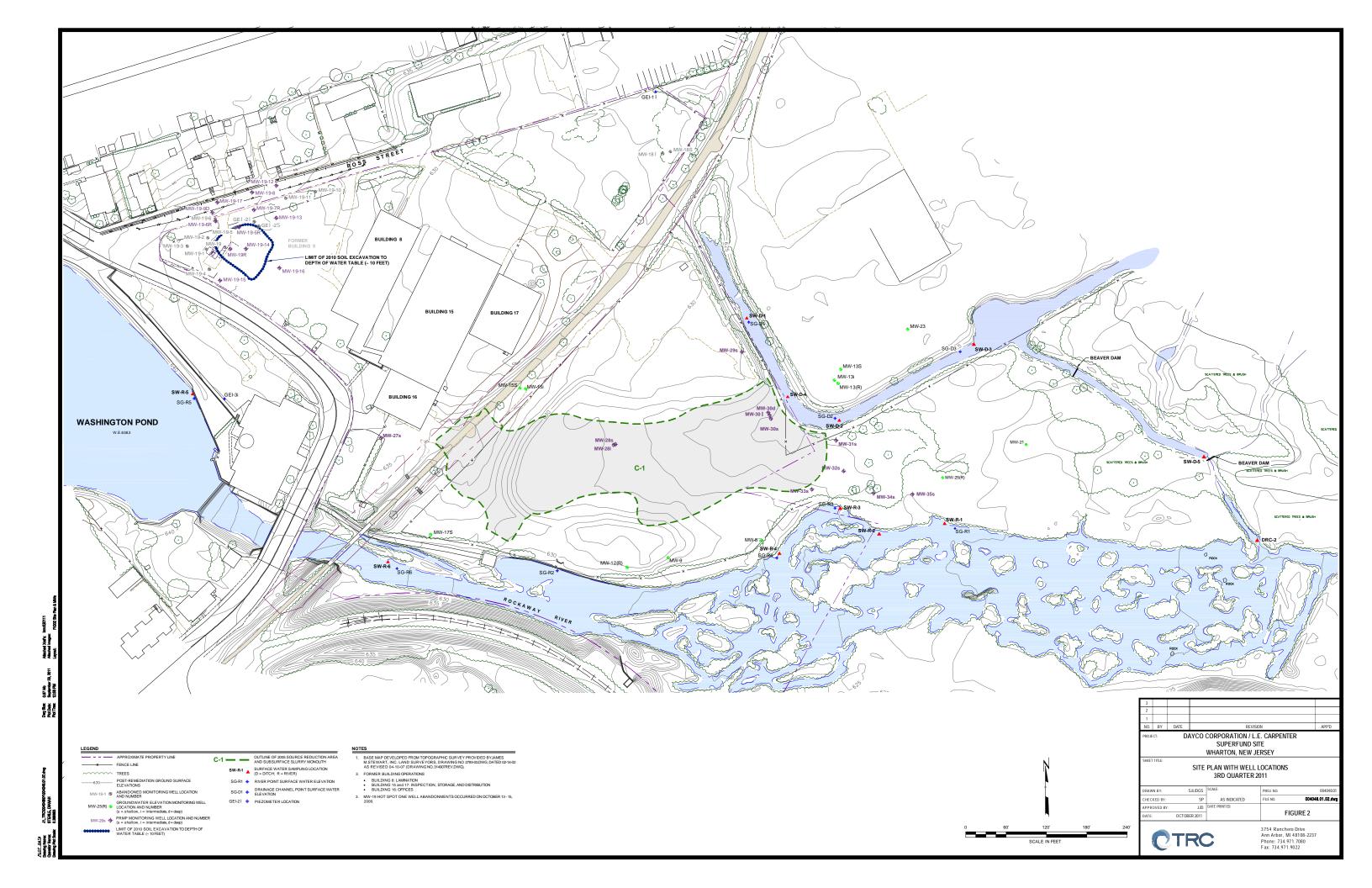
(2) Due to believed lab contamination of the original sample, surface water location SW-R-3 was resampled and the sample alaquot was split between two labs. These results are from Environmental Science Corporation (ESC).

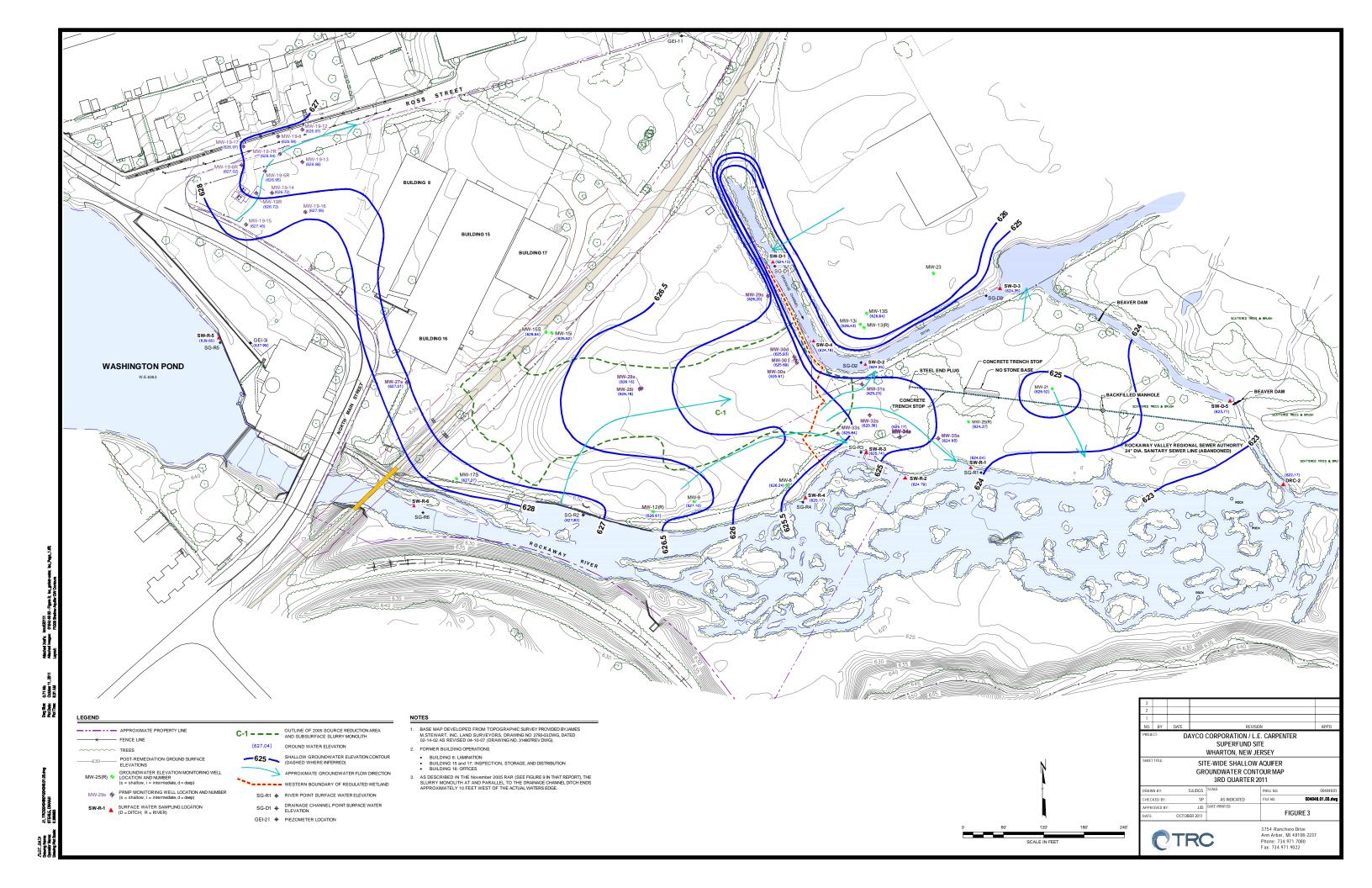
(3) Due to believed lab contamination of the original sample, surface water location SW-R-3 was resampled and the sample alaquot was split between two labs. These results are from Lancaster Laboratories (Lancaster).

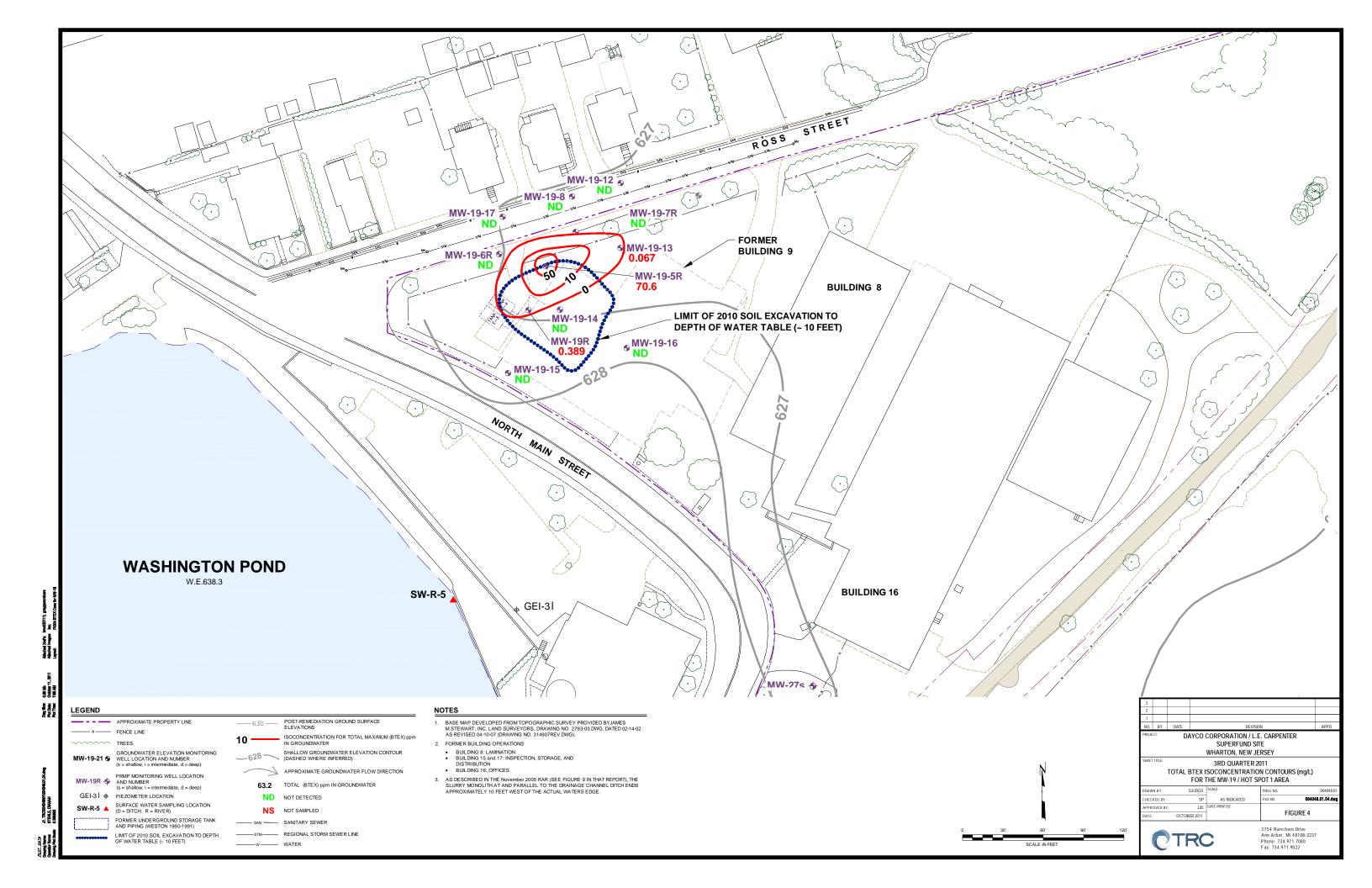
(4) Per NJDEP request, along with a change in laboratories, the detection limits for the Site COCs were lowered.
(5) Due to laboratory error, original BTEX samples were analyzed outside the holding time. Surface water locations were resampled and analyzed within the appropriate holding times.

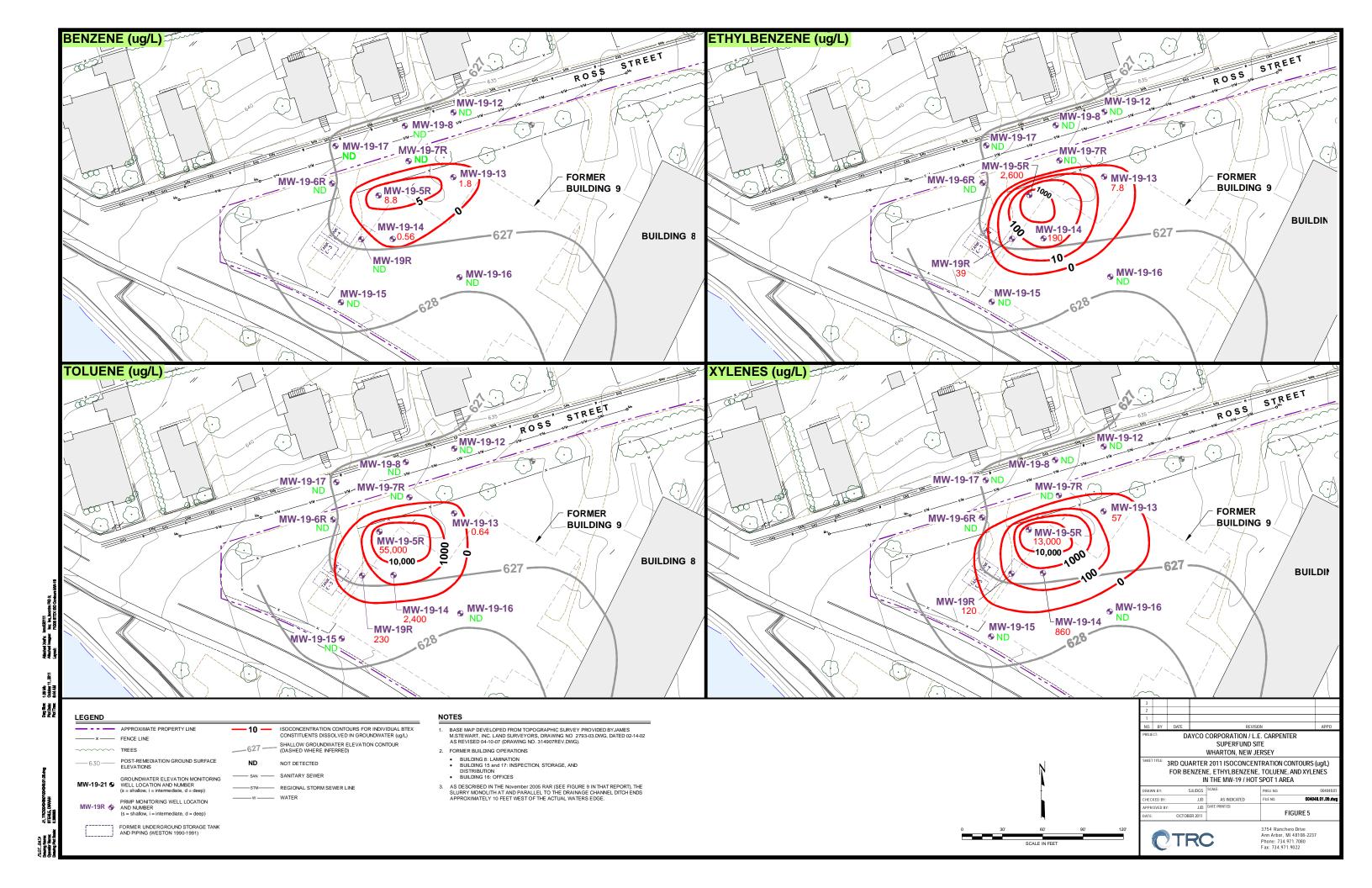
## **Figures**

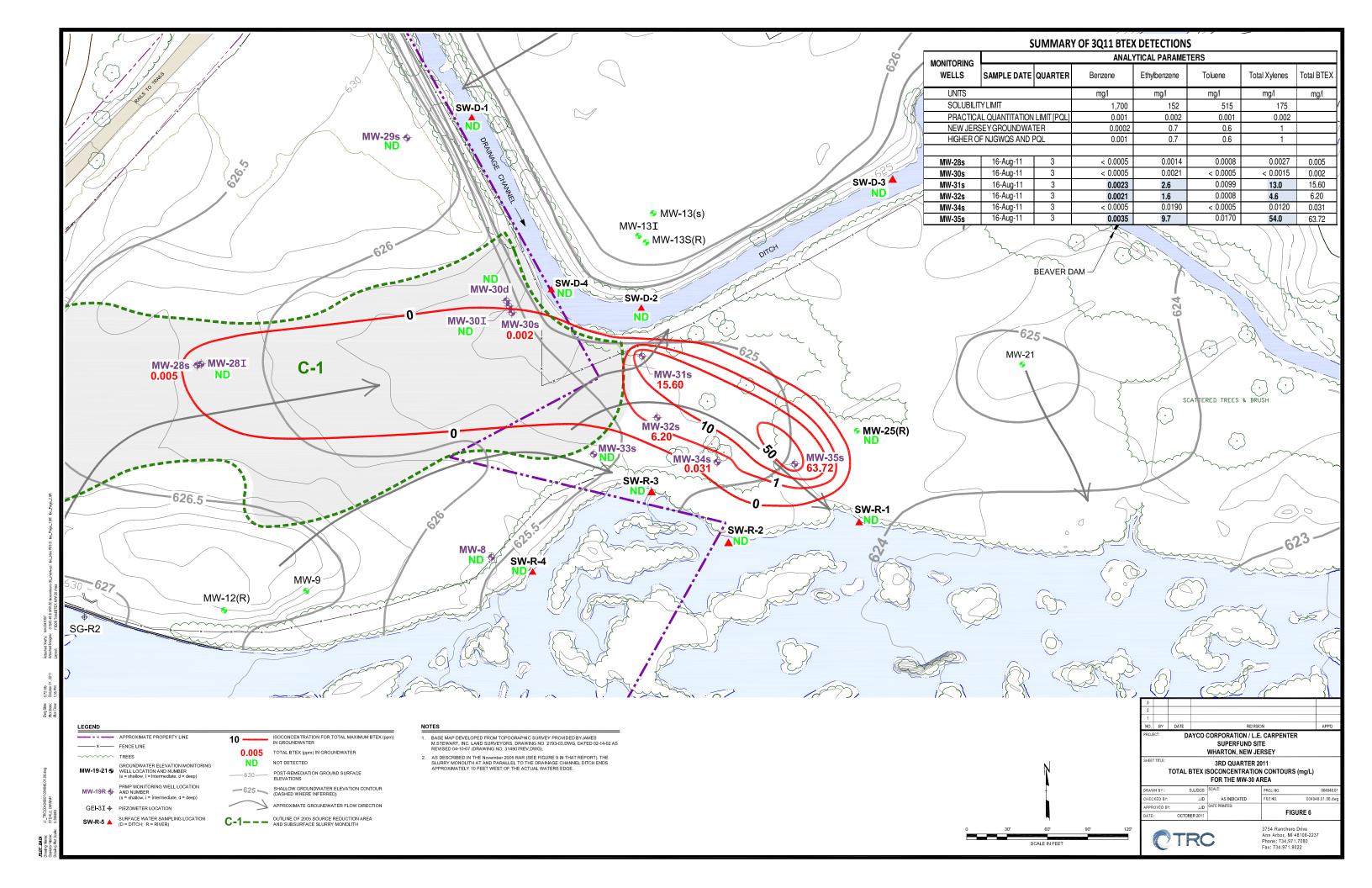


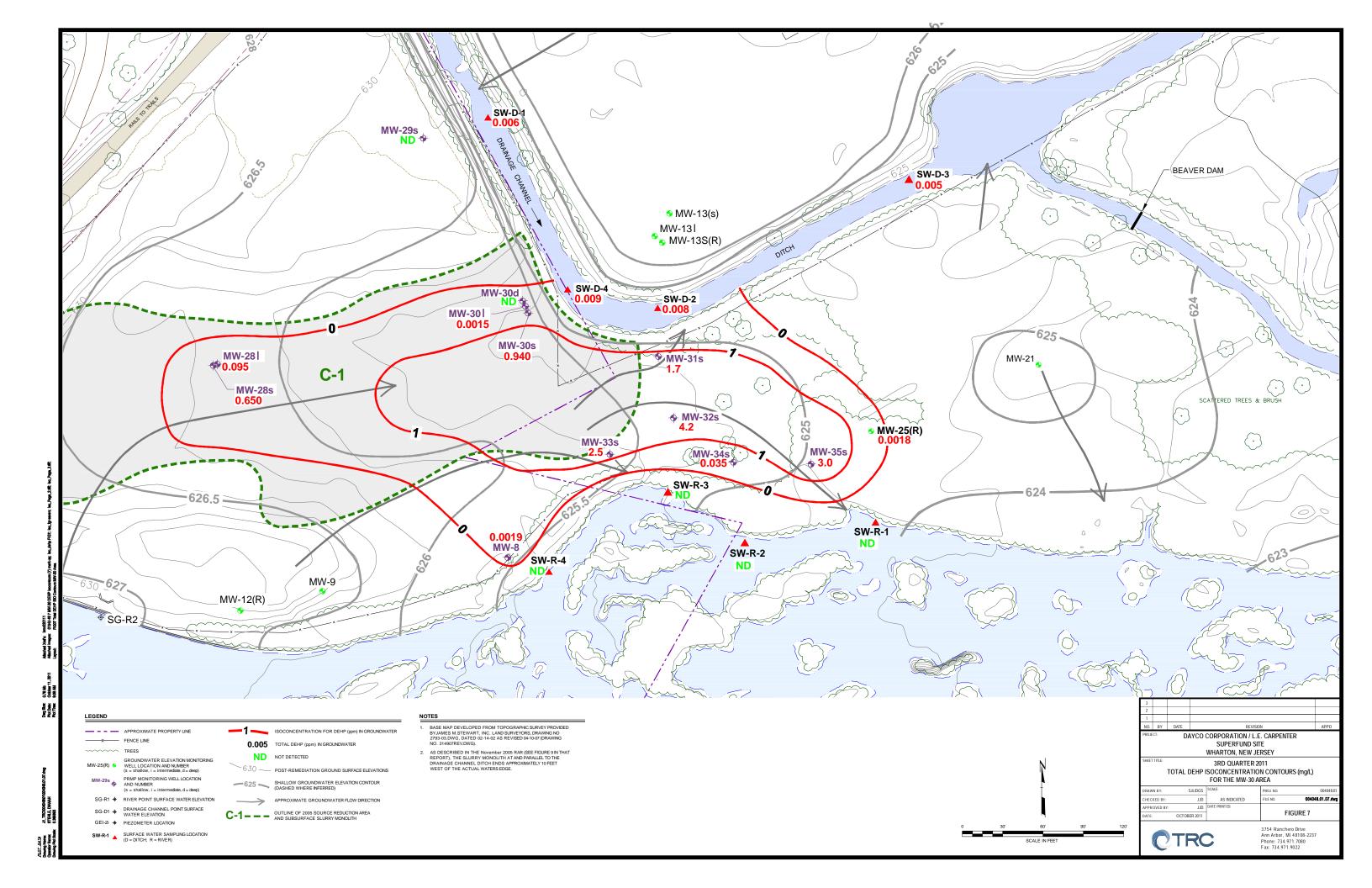












# Appendix A Photographic Summary and Field Data Forms



Client Name: Site Location: Project No.:

DayCo/LE Carpenter & Company Wharton, NJ 004048.0000.0000

Photo No. Date

1 8/18/11

Description

Standing just East of Main Street looking East at the restored MW19HS1 remediation area.



Photo No. Date
2 8/18/11

Description

Standing near MW-29s looking Southeast toward MW-30D, 30I, and 30S and the wetland area.





Client Name:Site Location:Project No.:DayCo/LE Carpenter & CompanyWharton, NJ004048.0000.0000

 Photo No.
 Date

 3
 8/18/11

Description

Standing near MW-30D, 30I, and 30S looking Northwest across the MW-30 site.



 Photo No.
 Date

 4
 8/18/11

Description

Standing South of SW-D-4 looking upstream (North) in the drainage ditch.





Client Name:Site Location:Project No.:DayCo/LE Carpenter & CompanyWharton, NJ004048.0000.0000

 Photo No.
 Date

 5
 8/18/11

Description

Standing near SW-D-4 looking downstream (East) in the drainage ditch.



Photo No. Date 6 8/18/11

Description

Standing near the wetland boundary looking East into the wetland area.





Project No.: **Client Name: Site Location:** 004048.0000.0000 DayCo/LE Carpenter & Company Wharton, NJ

Photo No. Date 7 8/18/11

Description

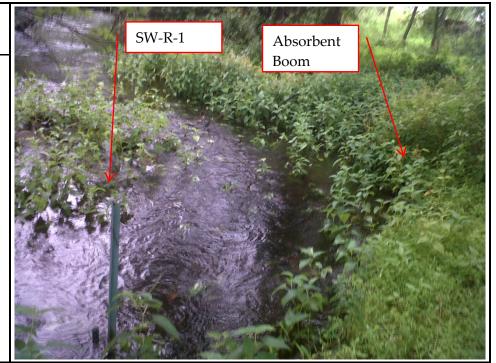
Standing at MW-35s looking West across the wetland area.



Photo No. Date 8 8/18/11

### Description

Standing near SW-R-1 looking upstream toward the absorbent boom section placed in the Rockaway River.





Client Name: Site Location: Project No.:

DayCo/LE Carpenter & Company Wharton, NJ 004048.0000.0000

 Photo No.
 Date

 9
 8/18/11

Description

Standing near DRC-02 (ditch river confluence) looking downstream toward the Rockaway River.



 Photo No.
 Date

 10
 8/18/11

Description

Standing near DRC-02 looking upstream (North) toward SW-D-5.





PROJECT NAME:	LE Carpenter & Co.
PROJECT NUMBER:	004048.0000.0000
PROJECT MANAGER:	B. Culp
SITE LOCATION:	170 N. Main Street
	Wharton, NJ 07885
DATES OF FIELDWORK:	8/15/2011 TO 8/18/2011
DUDDOOF OF FIFE DWORK	
PURPOSE OF FIELDWORK:	3Q11 Sampling
· .	S. Pawlukiewicz, M. Abraham
WORK PERFORMED BY:	

Scot Paulikumicy

Scot Middlebrook



### **GENERAL NOTES**

PROJECT NAME:	LE Carpenter & Co.	DATE: 2/15/	(U	TIME ARRIVED:	
PROJECT NUMBER:	004048.0000.0000	AUTHOR: S.	Pawlukiewicz, M. Abr	TIME LEFT:	
		WEATHER			
TEMPERATURE: 70	o °F WIND: 0 =	<u> </u>	VISIBILITY:	RAIN	
		AMPLING PERFO	RMED		
- Site-wide	. We's completed	by PARS			
- Purged 3	of 5 wetlans well	≥ .			_
,					
177.7					
PRO	BLEMS ENCOUNTERED		CORRECTIVE	ACTION TAKEN	
	NA		MA		·
		OMMUNICATION.			
NAME.	REPRESENTING	UNIMUNICATION	SUBJECT / COMME	NTS	
u. Abraham		ieus work	COORDINATION		
M. Alpin street			<u> </u>		
	INVESTIGATIO	N DERIVED WAS	TESUMMARY		
WASTE MATRIX	QUANTITY		COMMENTS		
				•	417.
-	1 1		4	1 n 1	

CHECKED BY

DATE



### **GENERAL NOTES**

PROJECT NAME: LE Carpenter & Co.  DATE: 48/16/11  TIME ARRIVED: PROJECT NUMBER: 004048.0000.0000  AUTHOR: S. Pawlukiewicz, M. Abi TIME LEFT: /	
	830
WEATHER	
TEMPERATURE: 75 °F WIND: 0-5 MPH VISIBILITY: OUGROUSS / RO.	W
WORK / SAMPLING PERFORMED	
- Purge 2 Remaining wetland wells - Complete wh's @ Sw locarious.	
- Complete Wh's @ 5w locations.	
- BW SAmple: MW-19-12, MW-19-8, MW-19-17, MW-19-15, MW-19-16	,
Mw-25 (R), Mw-295, Mw-8.	
PROBLEMS ENCOUNTERED CORRECTIVE ACTION TAKEN	
COMMUNICATION	
NAME REPRESENTING SUBJECT/COMMENTS	
D. Couson LEC check IN Schodule.	
INVESTIGATION DERIVED WASTE SUMMARY  WASTE MATRIX QUANTITY COMMENTS	

DATE



### **GENERAL NOTES**

PROJECT NAME:	LE Carpenter & Co	DATE:	al al	TIME ARRIVED: 07/5
	-		8/17/11	
PROJECT NUMBER:	004048.0000.0000	AUTHOR	S. Pawlukiewicz, M. Ab	11ME LEFT: /900
		WEATHER		
TEMPERATURE:	°F WIND: O	- S MPH	VISIBILITY	CLEAR
		/SAMPLING P		
66 SAMPLE:	mw-19-14, mw-1	9-13 , Mu	1-19-6R, ATM-0	1 , MW-19-712, 5 , MW-28 i (MS/1
,	MW-19R, MW	-19-5R/	Depos)	
	MW-305, MW-	361 ML	1-300, MW-28	s, MW-281 /M3/1
	(201)	(	•	,
	(Dop-ol)			
ſ				
PRO	BLEMS ENCOUNTERED		© ORRECTIVE	ACTION TAKEN
	Secretaria Malicala del Ferre Partir (190			
		COMMUNICAT		
NAME	REPRESENTING		SUBJECT / COMME	NTS
7		* -		
	INVESTIGAT	ION DERIVED I	WASTE SUMMARY	
WASTE MATRIX	QUANTITY		COMMENTS	
00.		<u> </u>		1 1
5 randets	~ 8/17/1	1	Sat Middle	brool 9/6/11



#### **GENERAL NOTES**

PROJECT NAME:	LE Carpenter & Co.	DATE:	8/18/11	TIME ARRIVE	ED: @730
PROJECT NUMBER:	004048.0000.0000	AUTHOR:	S. Pawlukiewicz, M. Abr	TIME LEFT:	1615
		and the second s			
		WEATHER	RESIDENCE THE SECURITIES AND AND ADDRESS A	D ( al	
TEMPERATURE: 30	<u>°F</u> WIND: <u>Ø -</u>			Prody Ck	200
		SAMPLING PI			
- 6W SAMPLE	NW-275, MW- DRC-02, SW-D-5,	315 MW:	375 MW-356,	MW-395,	MW-356
sw sample:	5w-12-6, 5w-0-5,				
	Juli 2 9 Juli 2 9 9 9	w-13-0 <sub>)</sub> w	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Rinse Banuks	RB-01, RB-02, R	B-63			
PROE	BLEMS ENCOUNTERED		CORRECTIVE	ACTION TAKE	
				132.5/100 17	
		COMMUNICAT	TION		
NAME	REPRESENTING		SUBJECT/COMME	NTS .	
D. Conson	USC	check a	OUT.		
			NASTE SUMMARY		
WASTE MATRIX	QUANTITY	ON DEMIVED	COMMENTS		
multi-complex and investment to a part Commission of the Commission	and the second substitution of the second substitution of the second second second second second second second			_	
	1	pprov. 4	25 gal. [purge	i Losh,	J
		525 gal	25 gnl. [purge polytant.		
		-	<u> </u>		

DATE



#### **EQUIPMENT SUMMARY**

PROJECT NAME:	LE Carpent	er & Co.	SAMPLER NAME:	S. Pawlukiewicz, M. Ab	raham			
PROJECT NO.:	004048.000	00.000	SAIVIPLEN IVAIVIE.	5. F awiuniewicz, IVI. AL	nanam			
WATER LEVEL MEASI	urements col	LECTED WITH:						
	QED			PROJECT DEDICATED				
NAME AND MODEL OF IN	NSTRUMENT		SERIAL NUMBER	R (IF APPLICABLE)				
PRODUCT LEVEL ME	ASUREMENTS C	DLLECTED WITH	i.					
	QED			PROJECT DEDICATED				
NAME AND MODEL OF I	NSTRUMENT		SERIAL NUMBER (IF APPLICABLE)					
DEPTH TO BOTTOM O	OF WELL MEASU	REMENTS COLL	ECTED WITH:					
	QED			PROJECT DEDICATED				
NAME AND MODEL OF I	NSTRUMENT		SERIAL NUMBER	R (IF APPLICABLE)				
PURGING METHOD								
BLADDER PL	JMP (QED SAMPI	.E PRO)		RENTAL				
NAME AND MODEL OF F	PUMP OR TYPE OF	BAILER	SERIAL NUMBER (IF APPLICABLE)					
SAMPLING METHOD								
BLADDER PU	JMP (QED SAMPI	_E PRO)	RENTAL					
NAME AND MODEL OF F	PUMP OR TYPE OF	BAILER	SERIAL NUMBE	R (IF APPLICABLE)				
GEOTECH	I DISPOSABLE FI	LTER		0.45 MICRON				
NAME AND MODEL OF F	FILTERATION DEVI	CE	FILTER TYPE AN	ND SIZE				
DISPOS	ABLE POLY TUB	'NG	√ LOV	V-FLOW SAMPLING EVENT				
TUBING TYPE			<u> </u>					
PURGE WATER DISPO	osalamethod							
GROUND	☐ DRUM	POTW	✓ POLYTANK	OTHER				
DECONTAMINATION	AND FIELD BLAN	IK WATER SOUR	<b>CE</b>					
ters in the state of the state	TORE BOUGHT			STORE BOUGHT				
POTABLE WATER SOUP	RCE		DI WATER SOU	RCE				
RP OB	٥	Alish	1.7m	111.1_	9-6-11			
SIGNED SIGNED	<del>*</del>	DATE	CHECKED BY		DATE			



PROJECT NAME:	LE Carpenter & Co.			MODEL: QE	<del>D-MP-2</del> 0	Horboula	SAMPLER	R: MA	SP/MA	
PROJECT NO.:	004048.0000.0000			SERIAL #:	PROJE		DATE: 8			
PH	CALIBRATION CHECK				SPE	CIFIC CONDL		**		HECK
pi∃7	\$ - pH4/10	100 m				READING	TEMPER			
(LOT#): NA	(LOT #): LV A	CAL.	TIME	(LO	r#):				CAL	TIME
(EXP. DATE):  POST-CAL READING / STANDARD	(EXP. DATE): A	RANGE			DATE):	ADING/STANDARD	(°CELS	IUS)	RANGE	
	4,00/4.00	WITHIN	14:21		CANDELL SELECTION	14,49			WITHIN	2,
1	1 4,00, 4.00	WITHIN	1 - 1		1.01	1	,		RANGE WITHIN	14:2
	,	RANGE WITHIN	ı			,			RANGE WITHIN	
	,	RANGE WITHIN				1			RANGE WITHIN	
ORP	CALIBRATION CHECK	RANGE		J -		D.O. CAL	IBRATION	I CHEC	RANGE	
CAL READING	TEMPERATURE				C/	ALIBRATION RI				
(LOT#):	(°CELSIUS)	CAL	TIME						CAL	TIME
(EXP. DATE):  POST-CAL READING / STANDARD		RANGE				(mg/L)			RANGE'	100
1		WITHIN	sy or half size						· WITHIN	171 2
		RANGE WITHIN						ŀ	RANGE WITHIN	14.2
<u> </u>		RANGE WITHIN						ŀ	RANGE WITHIN	
<u></u>		RANGE WITHIN						-	RANGE WITHIN	
TURBID	INTY CALIBRATION CHEC	RANGE		<u> </u>			COMMEN	ITS	RANGE	
	READING (NTU)	1			AUTOCAL	SOLUTION			OLUTION (	S)
(LOT#):	(LOT#): ルム	CAL.	TIME	(LOT	#):		LIST LOT NUI			
(EXP. DATE):  POST-CAL READING / STANDARD	(EXP. DATE): VA  POST-CAL READING/STANDARD	RANGE		2013.60	, DATE):	PARAMETERS	Carallain of an armenious	of Labor a Proof	RATION CHE	594 (No. 24 to 1)
1	<b>A</b>	WITHIN	<b>1</b> 4.91	C,	DH pH		1000 Profession (400 - 1	- 0.2 S.U.	N RANGES <sup>IT</sup>	
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	,	RANGE WITHIN		-	]			- 178 OT V	CAL. STANI	
	,	RANGE WITHIN			] D.O					
,	, , ,	RANGE			_	1		ARIES	DAL CTANE	NADD
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P	ROBLEMS ENCOUNTERED					CORRECTIV	E ACTIONS	and the same		
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							***********			
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SIGNED		DATE		_	CHECKE	) BY			<i>!/_6/_</i> _	ATE



	WATER Q	UALITY MET	ER CALI	BRATION LOG			
PROJECT NAME:	LE Carpenter & Co.		MODEL: QE	D MP-20	SAMPLE	R: SP/MA	
PROJECT NO.:	004048.0000.0000		SERIAL #:	PROJECT	DATE:	8/14/11	
P	H CALIBRATION CHECK			SPECIFIC CONDU	JCTIVITY	CALIBRATION	CHECK
pH 7 (LOT#): ZIC 4466 (EXP. DATE): 4/203 POST GAL READING / STANDAR	ph 4 10 (LOT#): Zo/O/6 9 (EXP. DATE): 9/26(Z) D POST-CAL READING/STANDARD	CAL, TIME	(EXF	CAL READING  1#): 8756  CHATE: 3/11/2012  DIST-CAL READING/STANDARD		RATURE CAL. Sius) RANGE	TIME
7.31 / 7.00	4.60 14.00	WITHIN RANGE /626 WITHIN RANGE WITHIN RANGE		1440   1413   	70.	Zí WITHI RANG	E /022 N E
/	1	WITHIN RANGE		1		☐ WITHI	
	P CALIBRATION CHECK					N CHECK	
CAL READING (LOT#):  (EXP. DATE): —  POST-CAL READING / STANDAR	(*CELSIUS)	CAL TIME		CALIBRATION R	EADING	CAL. RANGE	TIME
1	20.28	WITHIN RANGE WITHIN RANGE WITHIN RANGE WITHIN RANGE		4 Zs		WITH RANG	E 1630
TURB	IDITY CALIBRATION CHE		J <u>L</u>		COMME	ENTS RANG	<b>E</b>
CALIBRATIO (LOT #):  (EXP. DATE):  POST-CAL READING / STANDAR	(LOT#): (EXP. DATE):  D POST-CAL READING / STANDARD	CAL. RANGE TIME	(LOT	AUTOCAL SOLUTION  (#):  - DATE):  ALIBRATED PARAMETERS	LIST LOT N UN	ANDARD SOLUTION  NUMBERS AND EXPIRA  IDER CALIBRATION CH  CALIBRATION RANGES	TION DATES ECK
960/660 1 red 8	2 20/178/401/0.68	WITHIN RANGE 1030		рН	pH:	+/- 0.2 S.U.	
/	1	WITHIN RANGE	] [	COND	COND:	+/- 1% OF CAL. STA	NDARD
/	1	WITHIN	[	ORP	ORP:	+/- 25 mV	
/	/	WITHIN RANGE	]   [	D.O.	D.O.:	VARIES	
	NOTES			TURB		+/- 5% OF CAL. STA  ATION RANGES ARE S EL OF THE WATER QUA	PECIFIC TO
	PROBLEMS ENCOUNTERED			CORRECT	IVE ACTION:	<b>5</b> 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	i Tari
S Pauliking	8	16/U DATE		Scot Mulall CHECKED BY	il	- 91	G/// DATE



PROJECT NAME:	LE Carpenter & Co.			MODEL: Q	ED MP 20	Han (1)	SAMPLER: MA	SP/MA	
PROJECT NO.:	004048.0000.0000			SERIAL#:	PROJE		DATE: 9/16/	ća	
DH	CALIBRATION CHECK			1	SDE	CIEIC COND	<u> </u>	DATION 6	
pH.7	pH-47-10		1.4			CIFIC COND READING	UCTIVITY CALIB		HECK
(LOT#): WA	(LOT#): ル4	CAL.	TIME	(L)	OT#):			CAL.	
(EXP. DATE): LUA	(EXP. DATE): NA	RANGE	I IIVIE		XP. DATE):		(°CELSIUS)	RANGE	TIME
POST-CAL READING/STANDARD					PERSONAL PROPERTY AND A SECOND	DING/STANDARD		C CASTUS	
	4.00 / 4.00	RANGE	1:38			14.49		WITHIN	1.5
	4.0014.00		1111	-	4.49	14.49		WITHIN	13.11
1	/	WITHIN RANGE				1		WITHIN RANGE	
1	/	WITHIN RANGE				1		WITHIN RANGE	
	CALIBRATION CHECK			1.5900	Commission of the commission o		LIBRATION CHE	CK	
CAL READING LOT#):	TEMPERATURE	A. 1	1		G/	LIBRATION F	READING		
EXP. DATE):	(°CELSIUS)	CAL.	TIME			(mg/L)		- CAL RANGE	TIME
POST-CAL READING / STANDARD		1					10 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m		
1		WITHIN RANGE					And the second s	WITHIN	7:38
1		WITHIN RANGE						7 10 10 mm	
1		WITHIN						WITHIN	10.12
<i>j</i>		WITHIN						RANGE WITHIN	1800
TURBID	ITY CALIBRATION CHEC	RANGE		<u> </u>			COMMENTS	RANGE	
CALIBRATION	READING (NTU)				AUTOCAL	SOLUTION	STANDARD:	SOLUTION (	s) -
LGT #): EXP. DATE):	(LOT #): VA (EXP. DATE): NA	CAL. RANGE	TIME	1907-19	T#);		LIST LOT NUMBERS A UNDER CALIB		
POST-CAL READING / STANDARD	POST-CAL READING/STANDARD	TOUNGE		Carat	P. DATE):	PARAMETERS		N RANGES <sup>(1</sup>	nia versione e e e e e
/	0.00 10.0	WITHIN RANGE	7:38		D pH	7.10.11.2.12.10	pH: +/- 0.2 S.U	\$24676000 (2) (1045/514) [	<u> </u>
	0.010.0	WITHIN	13:12	,	 □	ID	ľ	CAL. STANI	DARD
1	1	RANGE WITHIN	101/2	1 1			ORP: +/- 25 mV		371112
	,	RANGE WITHIN			_				
,	/	RANGE			D.O.		D.O.: VARIES		
	NOTES				TUR	В	TURB: +/- 5% OF	CAL. STANE	DARD
							(1) CALIBRATION RAN		
							THE MODEL OF THE W	ATER QUALIT	Y METER
0.0	ROBLEMS ENCOUNTERED								
	KOBLEMS ENCOUNTERED					CORRECTI	VE ACTIONS		
,									
Mast II	F	ir t.				111	/		
May & Al	4.	<u>16·11</u>			Scot	Medell		9/6/	111
IGNED		DATE '			CHECKED	BY ,			ATE



#### WATER QUALITY METER CALIBRATION LOG

		WATER Q	UALIT WE	IER CAL	IDRATIO	N LUG			
PROJECT	NAME:	LE Carpenter & Co.		MODEL: QE	D MP-20		SAMPLER:	SP/MA	
PROJECT	NO.:	004048.0000.0000		SERIAL#:	PROJECT	······································	DATE: 8/17/1	l	
	PH	CALIBRATION CHECK			SPECIFI	C CONDU	CTIVITY CALIBI	RATION CI	HECK
		pH 4 / 10 (LOT #): ZOKS (69 (EXP. DATE): 9/ZO/Z POST-CAL READING / STANDARD	CAL TIME	(EX	CAL REAL T#): \$756 p. date): 3/11 ost-cal reading	lion	TEMPERATURE	CAL. RANGE	TIME
7.85	17.30	5.20 / 4.30	WITHIN OSIS		1409 1	1413	Z=.30	WITHIN RANGE	0820
8,65	17.50	5.66 14.20	□ WITHIN 1410		410 1	1413	20.70	WITHIN RANGE	1412
	1	/	WITHIN RANGE		/			WITHIN RANGE	
	1	/	WITHIN RANGE		1			WITHIN RANGE	
BEET WELL BETTER STATE OF THE S	THE RESERVE OF THE PARTY OF THE	CALIBRATION CHECK				emercine de la companya de la compa	IBRATION CHE	K	
(LOT#): (EXP. DATE):	READING  READING / STANDARD	TEMPERATURE (*CELSIUS)	CAL TIME		CALIB	RATION R (mg/L)	EADING	CAL. RANGE	TIME
187	1787	20,31	WITHIN COSTE			6.70		WITHIN RANGE	0824
190	1 198 1 198	20.70	WITHIN RANGE /4/4			6.79 6.50		WITHIN RANGE	1415
.1 -	1		WITHIN RANGE					WITHIN RANGE	
1	1		☐ WITHIN RANGE					WITHIN RANGE	
Table Telephantague programma		ITY CALIBRATION CHEC	К				COMMENTS		
(LOT#): (EXP. DATE): POST-CAL R	-	READING (NTU)  (LOT#):  (EXP. DATE):  POST-CAL READING / STANDARD	CAL. RANGE TIME	(EX	AUTOCAL SO T #): P. DATE): CALIBRATED PAR			and energy are a magazine and	ON DATES CK
6 softer	190/100	18/20 10.08/201	WITHIN RANGE 0877		pН		pH: +/- 0.2 S.	A41200116775591258F08188108	
	1	1	WITHIN	<u></u>	COND		COND: +/- 1% OI	CAL. STANI	DARD
	1	/	WITHIN		ORP		ORP: +/- 25 mV	,	
	1	/	WITHIN	1 1	D.O.		D.O.: VARIES		
		NOTES	1011102	]	TURB		TURB: +/- 5% OI	CAL. STANI	DARD
p4	met pre	be showing dr	. 'FT .				(1) CALIBRATION RAP THE MODEL OF THE 1		
	P	ROBLEMS ENCOUNTERED				CORRECTI	VE ACTIONS		1 2 2 <u>3</u>
		•						,	
SIGNED	wleking	8/1	7/11 DATE		Sat VI CHECKED BY	heldl		9/6/	// DATE



	WATER	JUALII	YME	IER CALI	BRAT	ION LO	3			
'ROJECT NAME:	LE Carpenter & Co.			MODEL: QE	MP 20	Horib U-	SAME	LER: MA	- SP/MA	
PROJECT NO.:	004048.0000.0000			SERIAL #:	PROJE		DATE			
PH	I CALIBRATION CHECK				SPEC	CIFIC COND	UCTIVI	TY CALIF	RATION C	HECK
-pH,7,	pH 4 / 10					EADING				TECK
(LOT#): AA (EXP. DATE): AAA	(LOT#): (EXP. DATE);	CAL.	TIME	(LÓT			n vi		CAL.	TIME
POST-CAL_READING / STANDARD					. DATE): IST-GAL REA	DING/STANDARD		CELSIUS)	RANGE	
	4.001 4.06	WITHIN			A CALL STREET, SALES OF THE SALES	SOUTH THE PARTY OF			<b>WITHIN</b>	7
/	4.00/ 4.00	+ <i>_</i> /	v io	1	4.40	14.49			RANGE	<del>  ' ' '  </del>
/	/ /	WITHIN	۷ -		-(. (.)	/ 4.49 /			RANGE WITHIN	1.01/
/	1	WITHIN	1			1			RANGE WITHIN	
ORF	CALIBRATION CHECK	RANGE		J	<del></del>	D.O. CA	LIBRAT	ION CHE	RANGE	
CAL READING	TEMPERATURE				CA	LIBRATION F			<u> </u>	
(LOT#):	(°CELSIUS)	CAL.	TIME						CAL.	TIME
(EXP. DATE):  POST-CAL READING / STANDARD		RANGE				(mg/L)			RANGE	IUVIC
		WITHIN	a						MITHIN	Krajini (
		WITHIN							RANGE	1.41
1		RANGE WITHIN							RANGE WITHIN	13:13
1		RANGE WITHIN							RANGE WITHIN	
TURBIC	│ DITY CALIBRATION CHE(	RANGE		L	<del></del>		COMB	ENTO	RANGE	
	READING (NTU)	1			AUTOCAL	SOLUTION	COMN		SOLUTION (S	81
(LOT#):	(LOT#): 10/F	CAL	TIME	(LOT#				STATE OF STA	ND EXPIRATION	with the little and it
(EXP. DATE):  POST-CAL READING / STANDARD	(EXP. DATE): JA	RANGE		393900	DATE):			INDER CALIB	RATION CHEC	Ж
POST-CAL READING/STANDARD	POST-CAL READING/ STANDARD	WITHIN	1	CAI		PARAMETERS		CALIBRATIC	ON RANGES <sup>(1)</sup>	
	0.00 1 0.00	RANGE	/:4		j pH		pH:	+/- 0.2 S.L		
	0.00 0.00	RANGE WITHIN	345		CON		COND:	+/- 1% OF	CAL. STAND	ARD
	/	RANGE WITHIN			ORP		ORP:	+/- 25 mV		
		RANGE			D.O.		D.O.:	VARIES		
	NOTES				TUR	3	TURB:	+/- 5% OF	CAL. STAND	ARD
							<sup>(1)</sup> CALIB	RATION RAN	GES ARE SPE	CIFIC TO
					J		THE MOD	EL OF THE W	ATER QUALIT	Y METER
									· · · · · · · · · · · · · · · · · · ·	
Pi	ROBLEMS ENCOUNTERED									State of the state
						CORRECTI	/E ACTION	5		1.35.35
	/ /									
Matt 1	11	17.[[			0 ~	Muld	11		911	1
SIGNED /	VI-	DATE		,	CHECKED	Muld BY			9/6/	ATE
									וט	~+L

SIGNED



#### **WATER LEVEL DATA**

PROJECT NAME:	LE Carpenter & Co.	DATE: 8/15/131
PROJECT NUMBER:	004048.0000.0000	AUTHOR: S. Pawlukiewicz, M. Abraham

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-19R			4.23	15.19	The state of the s	
MW-19-5R			4.25	15.86		
MW-19-6R			9.44	15.40		
MW-19-7R			4,03	15.38		
MW-19-8			9.12	19.21		Service Services
MW-19-12			7,49	16.55		
MW-19-13			7.47	14.91		
MW-19-14			8.10	15:86		
MW-19-15			741	15.44		
MW-19-16			6.40	15.68		
MW-19-17			8.44	15.43		
GEI-3I	27	The second of th	1.26	2.61		
1900 - 122 - 123 - 124 - 125 -					ing the second s	
MW-25R			2.28	9,07		
MW-21			2.68	17.96		
MW-27S			9.06	12.92		
MW-28S			4.98	17.49		
MW-28I			4.86	22.68		
MW-29S		54 program (	6.46	14.42		
MW-30S	A CONTRACTOR OF THE CONTRACTOR		263	11 97		A CAROL MANUFACTURE OF THE STATE OF THE STAT
MW-30I			7.32	17.95		00 PERSON AND REAL PROPERTY AND
					10 10 10 10 10 10 10 10 10 10 10 10 10 1	

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

Signed 8/16/11
DATE

Scat Muldh 9/6//
CHECKED DATE



8/16/11

#### **WATER LEVEL DATA**

DATE: 8/15/11 PROJECT NAME: LE Carpenter & Co. AUTHOR: S. Pawlukiewicz, M. Abraham PROJECT NUMBER: 004048.0000.0000

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-30D	204		2.09	24.21		
MW-31s			4.59	10.08		
MW-32s		Teaming to the second	4.42	10.16		
MW-33s			5.07	10.03		
MW-34s			4.76	10.07		
MW-35s			41,26	10.01		
SW-D-1	A to take		1.60			
SW-D-2			1.82			
SW-D-3			1.35			
SW-D-4			0.84			
SW-D-5			3.15	X 040 5	TAFF GAUGI	a !
SW-R-1			1.83		8	
SW-R-2	9		<i>1</i> .75			natur Natur
SW-R-3			1.11			
SW-R-4		A CONTROL OF THE STATE OF THE S	2.4	A WHITE CHECK IN THE CHECK IN T	as too places, 1975 (1975) A. F.	
SW-R-5			1.01			
SW-R-6						
DRC-2			1.12			The state of the s
SG-R2			1.58			
	1 (1985 c) 2 (1985 c)					

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

DATE



#### **WATER LEVEL DATA**

PROJECT NAME:	LE Carpenter & Co.	DATE: 4	8(15/11
PROJECT NUMBER:	004048.0000.0000	AUTHOR	: S. Pawlukiewicz, M. Abraham

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-15S			9.53			
MW-15I			9.44			
MW-17S			6.92			
MW-12R			7.12	14.81	·	
MW-9			2.48			
MW-8			1.95	19.88		
MW-13S	19 A		2.87			
MW-13I			3.63			
MW-13S (R )			3.63 N/A	NO ACC	<i>0</i> 22_	

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

SIGNED SIGNED

8(16/11 DATE

CHECKED

9-6-11

DATE

PROJECT NAME: LE Carpenter & Co.	PREPARED CHECKED
PROJECT NUMBER: 004048.0000.0000 BY	Y: SP/MA DATE: 8/4/1/ BY: SM DATE: 9/6/1/
SAMPLE ID: NW- 35 R WELL DIA	AMETER: 🔀 2" 🗌 4" 🗌 6" 📗 OTHER
	ALVANIZED STEEL OTHER
SAMPLE TYPE: GW WW SW DI	I LEACHATE OTHER
PURGING TIME: 10-15-10 DATE: 8/16/1	11 SAMPLE TIME: 11:59 DATE: 8/16/4
PURGE PUMP Blackler	PH: 6-50 SU CONDUCTIVITY: 5738 umhos/cm
METHOD: BAILER	ORP: <u>51</u> mV DO: <u>0.00</u> mg/L
DEPTH TO WATER: 3/3/21/ PVC	TURBIDITY: <a href="#">1960</a> NTU
DEPTH TO BOTTOM: <u>9.01</u> T/ PVC	□ NONE □ SLIGHT □ MODERATE 🗡 VERY
WELL VOLUME: 4.14 X LITERS GALLONS	S TEMPERATURE: 18.29 °C OTHER:
VOLUME REMOVED: 12   LITERS   GALLONS	s color: Black odor: Malente
COLOR: BOWA ODOR: NOA	
TURBIDITY	FILTRATE COLOR: Clear FILTRATE ODOR:
□ NONE □ SLIGHT □ MODERATE □ VERY	
DISPOSAL METHOD GROUND DRUM OTHER	COMMENTS: Fe. 4 AIK: 150 CO2:50
TIME PH CONDUCTIVITY ORP	D.O. TURBIDITY TEMPERATURE WATER CUMULATIVE
RATE (ML/MIN) (SU) (umhos/cm) (mV)	(mg/L) (NTU) (°C) (FEET) (GAL OF C)
11:23 400ml 6.74 686 -83	000 1007 1771 230 INITIAL
11 28 400ml 665 622 - 31	0.00 kgus 17.79 228 2 L
11:33 400 16 63 564 -4	6.00 (900   18.05   2.29 4
11:38 400m 6.73 592 7	6.00 4900 17.85 2.28 6
11:43 400 6.73 532 37	0.00 (800 19.23 231 8
	11 11 11 11 11 11 11
11 10 10 30	
11:53 400 6-80 528 51	0.00 4600 18.29 2.30 12
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 S	SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
pH: +/- <b>0.1</b> COND.: +/- (*1000), 20 ORP: +/- <b>NA</b>	D.O.: +/- 0.3 TURB: +/- 10 % or = 10 TEMP.: +/- 0.5°C</td
BOTTLES FILLED PRESERVATIVE CODES A - NONE	B - HNO3 C - H2SO4 D - NaOH E - HCL F
NUMBER SIZE TYPE PRESERVATIVE FILTERE	ED NUMBER SIZE TYPE PRESERVATIVE FILTERED
2 40 mL VOA E Y	N 1 125 mL PLASTIC B Y N
2 40 mL VOA A	N 1 100 mL PLASTIC F Y N
2 1 L AMBER A Y	] N
1 500mL PLASTIC A Y	N Y N
1 125 mL PLASTIC C Y	
SHIPPING METHOD: FED EX DATE SHIPPED:	8/16/1 AIRBILL NUMBER: \$669 1600 344
COC NUMBER: NA : SIGNATURE:	Notify DATE SIGNED: 4/6/11
DEVISED 06/2014	TVINIAL STATE STAT

8684 1600 3446

8/16/11

AIRBILL NUMBER:

DATE SIGNED:

Q1	RC	;	V	VATE	R S	AMPI	LE LOG	•		
PROJEC	T NAME:	LE Ca	arpenter & Co.		and the	PRE	PARED		, СНЕ	CKED AVE
PROJEC	T NUMBE	R: 00404	48.0000.0000		BY:	SP/MA	DATE: 8	KU BY:	5m	DATE:9/6/11
SAMPLE	ID: /	1N-29		WELL	DIAME	TER: 🔀	2"	] 6"	HER	
WELL MA	TERIAL:	PVC	□ss 😼	IRON [	GALV	ANIZED S	TEEL	ОТ	HER	
SAMPLE T	TYPE:	☐ GW	ww	sw [	] DI	L	EACHATE	□ ОТ	HER	
PUR	GING.	TIME: 14	:04 DA	ATE: 8/	16/11	· s/	MPLE	TIME: 14:	47	DATE: 8//6///
PURGE		€PUMP	Bladde		_	PH:	C.46 S	SU CONDU	CTIVITY:	848 umhos/cm
METHO	D:	BAILER			_	ORP:	<u>-13i</u> n	nV DO:	0.00	mg/L
DEPTH T	O WATER:	6.46	_ T/ PVC			TURBIC	OITY: <u>15</u> .	2 NTU		
DEPTH T	O BOTTON	1:14.42	T/ PVC	****		NON 🔼	IE SL	IGHT	MODERATE	VERY
WELL VO		4.91	LITERS	GALL	ONS	TEMPER	RATURE: 16	716°C	OTHER:	
VOLUME	REMOVED	14	LITERS	GALL	ONS	COLOR	: Clou		ODOR:	Moderate
COLOR:	_C	Per	OD	or: <u>5/</u> ?	SHT	FILTRAT	E (0.45 um)	✓ YES	□ NO	
		TUF	RBIDITY		<i>f</i>	FILTRAT	E COLOR: <u></u>	les	FILTRATE O	DOR:
NONE	[ <mark>∑</mark> ] SL	IGHT	MODERATE	VE	ERY	QC SAN	/IPLE: MS	s/MSD	DUP-	
DISPOSA	L METHOD	GROU	ND 🗌 DRUM	✓ OTHE	R	COMME	ENTS: Feil	6 Alk	) <b>350</b>	CO, 180
TIME	PURGE RATE	PH	CONDUCTIVITY	ORP		D.O.	TURBIDITY	TEMPERATI	LEVEL	PURGE VOLUME
Kircor	(ML/MIN)	(SU)	(umhos/cm)	(mV)		(mg/L)	(NTU)	(°C)	(FEET)	
14,06	100	6.72	825	116		1.86	125	21.60	668	1
14:11	400	6.36	861	~114	2	2.31	120	19.5	3 6.70	2
14:16	400	621	849	-100	4 0	9.98	56.0	19.50	6.70	) 4
14:21	400	6.19	844	-109	<u>'</u>	7.51	36,1	19.43	6.69	C
14500	400	G. 23	843	-113	0	. 33	19.9	19.40	9 688	8
14:31	400	6.32	843	-118	C	00	15.9	19.46	6.71	10
141.36	,	6.39		-125	0	-00	16.2	19,27		ľ
14,41	1	6.46	848	~131		.00	15.1	19 16	0.70	14
	,									
NO	TE: STABI	LIZATION 1	EST IS COMPL	ETE WHE	N 3 SUC	CESSIVE	READINGS A	RE WITHIN 1	THE FOLLOW	ING LIMITS:
pH: +/-		COND.: +/-		+/- <b>NA</b>		: +/- 0.3	TURB: +/-		= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTLE	S FILLED	PRESERV	ATIVE CODES	A - NONE	В-	- HNO3	C - H2SO4	D - NaOl	1 E-H	ICL F
NUMBER	SIZE	TYPE	PRESERVATI	/E FILT	ERED	NUMBER	R SIZE	TYPE	PRESERVA <sup>*</sup>	TIVE FILTERED
2	, 40 mL	VOA	E	□ Y	✓ N	1	125 mL	PLASTIC	В	✓ Y □ N
2	40 mL	VOA	Α	□ Y	✓ N	1	100 mL	PLASTIC	F	Y ✓ N
2	1 L	AMBER	Α	□ Y	☑ N			,		□ Y □ N
1	500mL	PLASTIC	Α	ΠY	N N					

COC NUMBER: KEVISED 06/2011

125 mL

SHIPPING METHOD:

PLASTIC

FED EX

С

DATE SHIPPED:

SIGNATURE:

## **QTRC**

PROJECT NAME: LE Carpenter & Co.		PREF	ARED	100 100	CHEC	CKED
PROJECT NUMBER: 004048.0000.0000	BY:	SP/MA	DATE: 8/16	U BY:	Sm	DATE:9/6/1/
SAMPLE ID: MW-S WE WELL MATERIAL: □ PVC □ SS □ IRON SAMPLE TYPE: □ GW □ WW □ SW	ELL DIAMET	NIZED STE	<i>F</i>		HER	
		I resource to the second second				ATE: Of land
PURGING TIME: (1.00) DATE: &  PURGE DEPTH TO WATER: 1.95 T/ PVC	/16/ <u>[</u> —	PH: 2 ORP: 1 TURBIDIT	yod wa	7%	CTIVITY: 35	
DEPTH TO BOTTOM: 19.04 T/ PVC		NONE	SLIG		MODERATE	☐ VERY
	LLONS	TEMPERA	01	<u>३</u> >℃	OTHER: _	
	LLONS	COLOR:	<u>L</u>  e./		ODOR:	Made att
TURBIDITY NONE SLIGHT MODERATE	VERY	FILTRATE FILTRATE QC SAMP	COLOR: Cle	YES Y ISD	FILTRATE ODG	DR:
DISPOSAL METHOD: GROUND DRUM OTH	HER	COMMEN	TS: fe: ()	OAIK	: 140	$\omega_2$ : 30
TIME PURGE PH CONDUCTIVITY OF RATE (ML/MIN) (SU) (umhos/cm) (m)    \$\frac{1}{2} \cdot 0 \cdot		mg/L) S\	URBIDITY (NTU)  O-8  12.3  7.1  2.5	1 PEMPERATU (°C) (6.15 (5.11 (5.11 (5.20 (5.35)	WATER   LEVEL   (FEET)	CUMULATIVE PURGE VOLUME (GAL ORA) INITIAL  Q  C  C  S  C  C  C  C  C  C  C  C  C  C
NOTE: STABILIZATION TEST IS COMPLETE WH  pH: +/- 0.1 COND.: +/- 6(<1000), 20 ORP: +/- NA			EADINGS AR			G LIMITS: ΓEMP∴ +/- 0.5°C
BOTTLES FILLED PRESERVATIVE CODES A - NON			C - H2SO4	D - NaOH		
30495 00349 MW (120 50 50 50 50 50 50 50 50 50 50 50 50 50	LTERED	NUMBER	SIZE	TYPE	PRESERVATIN	
2 40 mL VOA E	YVN	1	125 mL	PLASTIC	В	VY N
2 40 mL VOA A	YVN	1	100 mL	PLASTIC	F	TY VN
2 1 L AMBER A	YVN					□ Y □ N
	YVN					□ Y □ N
1 125 mL PLASTIC C	YVN					☐ Y ☐ N
SHIPPING METHOD: FEO Ey DATE SHIP	PED:	8/16/	1(	AIRBILL N	IUMBER: 🔏	1689 (GOD 34)
COC NUMBER: NA SIGNATUR	E: <u>//</u>	let II	M	DATE SIG		3/16/11



μA

SIGNATURE:

DATE SIGNED:

COC NUMBER:

REVISED 06/2011

PROJEC1	ΓNAME:	LE Ca	rpenter & Co.			PREF	PARED			CHEC	KED
PROJECT	NUMBER	R: 00404	8.000.0000		BY: (	SP/MA	DATE: 8/1	6/11 BY	': <u>5</u>	M	DATE:9/6/11
SAMPLE	ID: Mi	W-19-12		WELL	DIAMET	ER: 2"	4"	6" 🔲 C	THER		
WELL MAT		PVC	⊠∕ss □	IRON _	GALVA	NIZED STE	EEL	□ c	THER		
SAMPLE T	YPE:	<b>⊠</b> GW	□ww □	sw 🗌	DI	LE	ACHATE	c	THER		
PUR	SING	TIME: /	037 DA	ATE: 8/16	(u	The second secon	MPLE .	TIME: /			ATE:8/16/11
PURGE		PUMP	BLAODER	·		PH: 4	<u>12</u> s	U CONE		TY: <u>7</u> 3Գ	umhos/cm
METHOD		BAILER			***	ORP: <u>/6</u>		V DO:	3. <u>43</u>	mg	/L
	WATER:		T/ PVC			م ا	ry: <u>6.79</u>	NTU			
DEPTH TO	ВОТТОМ	16.55	T/ PVC			NONE	SLI	GHT [	MOD	ERATE	☐ VERY
WELL VOL	.UME:	6.12	LITERS	GALLO	NS .	TEMPERA	TURE: 19.	<u>86</u> ∘c	ОТН	ER:	_
VOLUME	REMOVED	<u> </u>	LITERS	GALLO	NS	COLOR:	NO		ODO	r: <u>C</u>	le
COLOR:		leae	OD	OR:	)	FILTRATE	·	✓ YES		NO	
ĺ	12.8		BIDITY			FILTRATE	COLOR:(	<u>la</u>	FILT	RATE ODC	)R: <b>NO</b>
NONE	SLI		MODERATE	VEI	RY	QC SAMF		/MSD		DUP-	
DISPOSAI	L METHOD	GROU	ND DRUM	✓ OTHER	₹	COMMEN	ITS: A/K.	50	C62 .	10	Fe: 6.0
TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)		D.O. T	TURBIDITY (NTU)	TEMPER/		WATER LEVEL (PEET)	CUMULATIVE PURGE VOLUME (GAL OF L)
1037	400	7.15	825	185	4	29 1	12.8	21.79		7. No	INITIAL
1042	1	7.04	732	188		59	2.19	19.99		7.10	2
1047		7.08	743	183			1.48	19.97		7.10	4
1052	γ	7.12	740	174	3.	42	1.19	70.01		7.10	6
1057		7.12	739	166	3-	43	2,79	19.86	•	7.10	8
					11.00						
										,	
NO.	TE: STARII	IZATION T	EST IS COMPL	ETE WUEN	2 5110	CESSIVE D	DEADINGS A	DE WITH	N TUE E	011014111	
pH: +/-		COND.: +/-		+/- NA		+/- 0.3	TURB: +/-		or =</td <td></td> <td>TEMP.: +/- 0.5°C</td>		TEMP.: +/- 0.5°C
BOTTLES	SFILLED	PRESERV	ATIVE CODES	A - NONE	В-	HNO3	C - H2SO4	D - Na	OH	E - HC	L F
NUMBER	SIZE	TYPE	PRESERVATI	VE FILTE	ERED	NUMBER	SIZE	TYPE	PRE	SERVATI	VE FILTERED
2	40 mL	VOA	E	□ Y	✓ N	1	125 mL	PLASTIC		В	✓Y □N
2	40 mL	VOA	Α	□ Y	✓ N	1	100 mL	PLASTIC		F	Y ✓ N
2	1 L	AMBER	Α	Y	✓ N						□ Y □ N
1	500mL	PLASTIC	Α	Y	✓ N	+ 1	3- pelod	ose.			Y N
1	125 mL	PLASTIC	С	□ Y	✓ N			<u> </u>			□Y □N
SHIPPING	METHOD:	FEORES	Ł DA	TE SHIDDE	.D. 4	dul.		AIDE:	1 NU INAC	ED. GG	

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## **CTRC**

PROJECT NAME:

PROJECT NUMBER: 004048.0000.0000

LE Carpenter & Co.

### **WATER SAMPLE LOG**

SP/MA

BY:

PREPARED

SAMPLE ID: M	W-19-8	W. Turning Company	WELL DIA	MET	ER: 2'	'	6" OTHI	ER			
WELL MATERIAL:	☐ PVC	ss 🗌	IRON GA	LVA	NIZED ST	EEL	ОТНІ	ER			
SAMPLE TYPE:	GW	ww	SW DI		LEACHATE OTHER						
PURGING	TIME: [[		ATE: 8/16/11	,	the state of the state	MPLE	TIME: //40		ATE: 8/16/11		
PURGE Z	PUMP	BLOODER				.94 s		TIVITY: <u>764</u>			
	BAILER				ORP: <u>156</u> mV DO: 2.46 mg/L						
DEPTH TO WATER	······································	T/ PVC			TURBIDI	TY: <u>445</u> : □su		MODERATE	☐ VERY		
WELL VOLUME:	11.46	LITERS	GALLONS			ATURE: <u>26</u>		OTHER:			
VOLUME REMOVE	٠	LITERS	GALLONS			<u> </u>			RO .		
	30mn	0[	DOR: NO			E (0.45 um)					
519 TURBIDITY FILTRATE COLOR: CP FILTRATE ODOR: NO											
NONE SI	_IGHT	/MSD	DUP-								
DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS:											
TIME PURGE	PH	CONDUCTIVITY	ORP	116	D.O.	TURBIDITY	TEMPERATU	RE WATER	CUMULATIVE		
RATE (ML/MIN)	(SU)	(umhos/cm)	(mV)		mg/L)	(NTU)	(°C)	LEVEL (FEET)	PURGE VOLUME (GAL OF L)		
1129 400	7.14	566	179		44	519	25.00				
1134	6.90	702	172	2	.42	12.8	21.23	7.78	· Z		
1139	6.90	701	162	2	46	8.73	21.19	7.78			
144 8	6.93	700	159		52	8.91	U.3	7.78	6		
1149	6.94	704	156			4.45	21.11	7.78	8		
		and the second of the second of									
						,					
NOTE: STAE	ILIZATION 1	EST IS COMPI	LETE WHEN 3	SUC	CESSIVE	READINGS A	RE WITHIN T	HE FOLLOWI	NG LIMITS:		
pH: +/- <b>0.1</b>	COND.: +/-	5 (<1000), 20 (>1000) ORP	: +/- <b>NA</b> i	0.0.:	+/- 0.3	TURB: +/-	<b>10</b> % or	= 10</td <td>TEMP.: +/- <b>0.5°C</b></td>	TEMP.: +/- <b>0.5°C</b>		
BOTTLES FILLED	PRESERV	ATIVE CODES	A - NONE	В-	HNO3	C - H2SO4	D - NaOH	E - H(	CL F		
NUMBER SIZE	TYPE	PRESERVAT	IVE FILTER	ED	NUMBER	R SIZE	TYPE	PRESERVAT	<del></del>		
2 40 mL	VOA	E	□ Y ✓	N	1	-125 mL	PLASTIC	B B	VY N		
2 40 mL	VOA	А	□ Y ✓	N	1	100 mL	- PLASTIC	<b>—</b>	□Y ☑N		
2 1 L	AMBER	Α	□ Y ✓	N	DE	P BIEN	153-BUAR	ere onle	☐Y ☐N		
500mL	PLASTIC	A-	□ Y ✓	N		1	30,504	J	□Y □N		
1 125 mL	PLASTIC	<del></del> -	□ Y ✓	N					□ Y □ N		
SHIPPING METHOD	FROED	C D.	ATE SHIPPED:		8/18/ii		AIRBILL N	IUMBER: \$6	89 1600 3446		
COC NUMBER:	AN.	S	IGNATURE:		1 12 8	ZV.	DATE SIG		3/16/11		
REVISED 06/2011				<del>-</del>		<del></del>			1·· ·/•		

## **OTRC**

COC NUMBER:

REVISED 06/2011

### **WATER SAMPLE LOG**

PROJECT	DJECT NAME: LE Carpenter & Co.					PRI	EPARED		CHEC	KED
PROJECT	NUMBER	R: 004048	8.0000.0000		BY:	<b>®</b> MA	DATE: 8	6/11 BY:	SM	DATE: 9/6/11
SAMPLE	ID: MU	U-19-1	<b>4</b>	WELL [	DIAME	TER: 🖊	2"	6"		
WELL MAT	ERIAL:	PVC	⊠ss □	IRON	GALVA	ANIZED S	STEEL	□ отн	ER	
SAMPLE T	YPE:	<b></b> ✓ GW	ww	sw 🗌	DI		LEACHATE	□ отн	ER	
PURC	BING	TIME: / 7		TE: 8/16	li	S	AMPLE	TIME: /3/	O DA	TE: 8/16/11
PURGE	7	<b>PUMP</b>	BLDOOR			PH: 7	7.29 s		TIVITY: <u>8/2</u>	umhos/cm
METHOD: BAILER						ORP:	<i>-1</i> 35′ m	V DO:	<u>/.00</u> mg,	/L
DEPTH TO	WATER:	8.45	T/ PVC			TURBI	DITY: <u>95</u>	NTU		
DEPTH TO	воттом	15.43	T/ PVC			NOI			MODERATE	☐ VERY
WELL VOL	UME:	6.98	LITERS	GALLO	NS	TEMPE	RATURE: Z	).42 °C	OTHER:	
VOLUME F	24	LITERS	GALLO	NS	COLOF	r: <u>cla</u>		ODOR: 🔼	2	
COLOR:		, Grange	Florthes OD	OR: <u>NØ</u>		FILTRA	TE (0.45 um)	✓ YES	☐ NO	
	68.5	TUR	BIDITY			FILTRA	TE COLOR: 껕	2	FILTRATE ODO	)R: <u>~0</u>
NONE	SLI	днт 🖊	MODERATE	VEF	RY	QC SA	MPLE: 🔲 MS	/MSD	DUP-	
DISPOSAL	METHOD:	GROUI	ND 🗌 DRUM	✓ OTHER	₹	СОММ	ENTS: AIK	100 (	02:20	Fe: 10
TIME	PURGE	PH	CONDUCTIVITY	ORP		D.O.	TURBIDITY	TEMPERATU	RE WATER	CUMULATIVE
	RATE (ML/MIN)	(SU)	(umhos/cm)	(mV)		( mg/L)	(NTU)	(°C)	LEVEL (FEET)	PURGE VOLUME (GAL ORD)
1210	400	6.98	695	-31		2.30	68.5	21.76		INITIAL
1215	ĺ	7.15	745	4/09		1,44	80.0	20.62		7
1220		7.19	767	-127	/	1,40	69.2	20.46	8.45	9
1725		7.70	784	-131		72	65.9	20.40	8.45	
1539	ν	7.73	790	-131		.52	64.6	20.35	8.45	8
1235		7.74	795	-132	. 1.	.16	42.5	70.33	8.45	16
1240		7.24	800	-132	j.	.31	43.7	20,30	8.45	12
1245		7.74	798	-133	1.	30	28.0	20.28	8.45	14
1750		7.25	804	-132	1.	1.18	23.5	20.77	8.45	16
1255		7.26	807	-133	1.	101	17.9	20.29	8.45	18
NO.	TE: STABIL	LIZATION T	EST IS COMPL	ETE WHEN	I 3 SUC	CESSIV	E READINGS /	RE WITHIN T	HE FOLLOWIN	G LIMITS:
pH: +/-		COND.: +/-	£ (<1000), 20	+/- <b>NA</b>		: +/- 0.3				TEMP.: +/- 0.5°C
BOTTLES	SFILLED	PRESERV	ATIVE CODES	A - NONE	В	- HNO3	C - H2SO4	D - NaOh	H E-HC	L F
NUMBER	SIZE	TYPE	PRESERVATI	VE FILTI	ERED	NUMBI	ER SIZE	TYPE	PRESERVATI	VE FILTERED
2	40 mL	VOA	E	□ Y	✓ N	1	125 mL	PLASTIC	В	VY N
2	40 mL	VOA	Α	Y	✓ N	1	100 mL	PLASTIC	F	☐ Y ☑ N
2	1 L	AMBER	Α	□ Y	☑ N					□ Y □ N
1	500mL	PLASTIC	Α	_ Y	☑ N				-	□ Y □ N
1	125 mL	PLASTIC	С	Y	✓ N					□ Y □ N
SHIPPING	METHOD:	FEOF		TE SHIPPE		8/41	//	AIDDILL	WIMPED. 00	56 Van 2641

SIGNATURE:

DATE SIGNED:



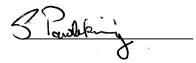
(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LE Carpenter & Co.		PREF	ARED			CHEC	KED
PROJECT NUMBER:	004048.0000.0000	BY:	SP/MA	DATE: 8	16/11	BY:	SM	DATE: 9/6/11

	SAMPLE ID: MW-19-17	
ı		į

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (-mg/L)	TURBIDITY (NTU)	TEMPERATURE	WATER LEVEL (PEET)	CUMULATIVE PURGE VOLUME (GAL OR/L)
1300	400	7.24	807	-134	1.19	16.0	20.33	8,45	20
1305	1	7.78	810	-134	1.24	12.7	70.36	8.45	22
2310	Q)	7.29	812	-135	1.00	9.5	70.45	8.45	24
									·
									w.v.
	4								
									-
					•				
	:								

SIGNATURE:



DATE SIGNED:

8/16/11

# PROJECT NAME: LE Carpenter & Co. PREPARED

PROJECT	NAME:	LE Cai	rpenter & Co.			HK.	EPARED	4.20		CHEC	KED	
PROJECT	NUMBER	R: 00404	8.0000.0000		BY:	SP/MA	DATE:	8/K/(	/ BY:	5 M	DATE:9/6/112	
SAMPLE	ID: Mu	v-19-1.	5	WELL	DIAMET	ER:	2"	<u> </u>	ОТН	ER		
WELL MAT	ERIAL:	PVC	ℤss [	IRON [	GALVA	NIZED S	STEEL		ОТН	ER		
SAMPLE T	YPE:	GW	WW [	sw 🗌	DI	LEACHATE OTHER						
PURG		TIME: [3		ATE: 8/16	(11	SER 35 AT 188 (5)	AMPLE		ME: 143		DATE: 8/16/(1	
PURGE METHOD		PUMP BAILER	BLADDR	R		PH: ORP:	6.78	SU		TIVITY: <u>128</u> _1.18	· · · · · · · · · · · · · · · · · · ·	
DEPTH TO WATER: 7-08 T/ PVC							DITY: Z		NTU	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	g/L	
	BOTTOM	· · · · · · · · · · · · · · · · · · ·	T/ PVC			☐ NO		SLIGH		MODERATE	☐ VERY	
WELL VOL	UME:	8.36	LITERS	GALLO	ONS	TEMPE	RATURE:	17,0	<u>6</u> .c	OTHER: _		
VOLUME F	REMOVED:	20	LITERS	GALLO	ONS	COLO	R: <u>L</u>	2	_	ODOR: _	No	
COLOR:	0,4	nge	0	OOR: NO		FILTRA	TE (0.45 u	m) 🗸	YES	☐ NO		
	> 1000	5 TUR	BIDITY			FILTRA	TE COLOR:	<u>le</u>		FILTRATE OD	OR: <b>//</b> 0	
NONE	SLI		MODERATE	VE				MS/MS		DUP-		
DISPOSAL	METHOD:	GROU	ND DRUM	✓ OTHE	₹	СОМИ	IENTS: A/	K1 10	no Co	2:35 p	6: 0.6	
TIME*	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVIT	ORP (mV)		D.O. mg/L)	TURBIDI (NTU)		EMPERATU (°C)	LEVEL	PURGE VOLUME	
1343	400	7.66	1175	- 23		2.91	>100	0	21.12	7.08	INITIAL	
1348	ſ	6.77	1279	-29	(	. 21	229		17.63	7.60	2	
135.3		6.75	1245	-24	1.	66	142		17.31		- 4	
1358	<b>V</b>	6.77	1767	-17	l.	,36	84.3	/	7.73	7.75	6	
1403		6.76	1768	-13	1	.60	59.6	ı	7.07	7.72	8	
1408		6.75	1274	-7	1.	07	50.3	/	6.88	7.72	10	
1413		6.78	1280	-3	1.	29	29 45.1		7.17	7.72	12	
1418		6.78	1851	1	1.	,60	41.9	1	7.16	7.72	14	
1423		6.77	1286	4	1,	.46	27.5	/	7-16	7.72	16	
1428		6.80	1286	8	1	.30	28.1	i	7.10	7.78	18	
NO.	TE: STABII	LIZATION T	EST IS COMP	LETE WHEN	N 3 SUC	CESSIV	E READING	GS ARE	WITHIN T	HE FOLLOWI	NG LIMITS:	
pH: +/-	0.1	COND.: +/-	<sup>5</sup> (<1000), 20 (>1000) ORF	: +/- <b>NA</b>	D.O.:	+/- 0.3	TURB:	+/- 10	% or	= 10</td <td>TEMP.: +/- <b>0.5°C</b></td>	TEMP.: +/- <b>0.5°C</b>	
BOTTLES	FILLED	PRESERV	ATIVE CODES	A - NONE	В-	HNO3	C - H2	SO4	D - NaOH	E-H	CL F	
NUMBER	SIZE	TYPE	PRESERVAT	IVE FILT	ERED	NUMB	ER SIZ	E	TYPE	PRESERVAT	TIVE FILTERED	
2	40 mL	VOA	E	Y	✓ N	1	125 r	nL F	PLASTIC	В	VY N	
2	40 mL	VOA	Α	□ Y	✓ N	1	100 r	nL F	PLASTIC	F	□Y ☑ N	
2	1 L	AMBER	Α	Y	✓ N						☐ Y ☐ N	
1	500mL	PLASTIC	Α	Y	✓ N						□ Y □ N	
1	125 mL	PLASTIC	С	Y	✓ N						□ Y □ N	
SHIPPING	METHOD:	FESTEX		ATE SHIPP	ED:	8/16/1			AIRBILL I	NUMBER: 86	189 1600 3446	
COC NUM	BER:	M	s	IGNATURE:		5 Ru	sliki		DATE SIG	SNED: S	5/16/11	
DEVICED	00/0044							<del></del>				



(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LE Carpenter & Co.		PREF	ARED			CHEC	KED
PROJECT NUMBER:	004048.0000.0000	BY:	<b>БР</b> МА	DATE: \$	16/11	BY:	Sm	DATE: 9/6///

SAMPLE ID: MW-19-15

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. ( mg/L)	(NTU)	TEMPERATURE	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OP)
1433	400	6.78	1287	11	1.18	27.0	17.06	7.72	20
į	<b>√</b>								
-	<b>√</b> /								
				***************************************					
			****						
	130.0								
	******								
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						- WANTE TO THE			
			304000	,					
	****		N. A. S.						
-									
L		L		1					

SIGNATURE:

Starbhig

DATE SIGNED:

8/11/11

## **CTRC**

COC NUMBER: REVISED 06/2011

### **WATER SAMPLE LOG**

PROJECT	NAME:	LE Car	penter & Co.	1		PRE	PARED		CHEC	KED			
PROJECT	NUMBER	: 004048	3.0000.0000		BY: <b>(</b>	SP/MA	DATE: 8	B/(i BY:	5M	DATE: <b>9/6/</b> //			
SAMPLE I		-19-16	✓ss □	WELL D		ER: 2		6" OTH					
SAMPLE T		☐ ☑GW		sw 🗌	DI		EACHATE	ОТН	ER				
PURC	GING	TIME: /5/	5 DA	TE: 8/K	/11	S/	AMPLE	TIME: 154	15 DA	TE: 8/16/11			
PURGE METHOD		PUMP	BLANDER	<del></del>		PH: _	7.50 si		TIVITY: <u>1937</u> 2.36 ma				
	WATER:	BAILER C / 4	T/ PVC			ORP: _			2. 36 mg.	<u>'L</u>			
	BOTTOM:		T/ PVC			TURBIDITY: <u>{. \$ \$ \$ \$ \$</u> NTU    NONE   SLIGHT   MODERATE   VERY							
WELL VOL			LITERS	GALLO	NS	r	RATURE: Z		OTHER:				
<b> </b>	REMOVED:		LITERS	GALLO			clr			Ub			
COLOR:	Claus		OD	OR: <b>N</b> 6		FILTRA	ΤΕ (0.45 um)	✓ YES	□ NO				
	288	TURI	BIDITY					le	FILTRATE ODC	DR: <b>N</b> O			
NONE	SLI	gнт 📈	MODERATE	U VEF	RY	QC SAI		/MSD	DUP-				
DISPOSAL	_METHOD:	GROUN	ND 🗌 DRUM	✓ OTHER	СОММ	ENTS: AIK!	160 C	2175	Fc: 0.1				
TIME PURGE PH CONDUCTIVITY ORP D.O. TURBIDITY TEMPERATURE LEVEL PURGE VOLUME (ML/MIN) (SU) (umhos/cm) (mV) (mg/L) (NTU) (°C) (FEET) (GAL OR U)													
1515	400	7.42	1 860	28	2	. <b>8</b> 9	238	22.05	5.64	INITIAL			
1520	1	7.46	1970	25	2	.62	136	20.50	5.95	Ζ			
1525	(	7.48	1920	23	7.	48	59.8	20.46	6.00	4			
1830		7.48	1930	22	Z	.47	46,6	20.40	6.00	6			
1535		7.49	1430	20	2	43	19.9	70.38	6.00	8			
1540	V	7.49	1920	19	2	.44	14,6	Zó.39	6.00	10			
1545		7.50	1930	18	2	,30	9.85	70-39	6,00	12			
NO			EST IS COMPL	ETE WHEN	I 3 SUC	CESSIVE	READINGS A	RE WITHIN T	HE FOLLOWIN	IG LIMITS:			
pH: +/-	0.1	COND.: +/-	5 (<1000), 20 (>1000) ORP:	+/- <b>NA</b>	D.O.:	+/- 0.3	TURB: +/-	<b>10</b> % or	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C			
BOTTLES	SFILLED	PRESERV	ATIVE CODES	A - NONE	В-	HNO3	C - H2SO4	D - NaOh	I E-HC	L F			
NUMBER	SIZE	TYPE	PRESERVATI	√E FILTI	ERED	NUMBE	R SIZE	TYPE	PRESERVATI	VE FILTERED			
2	40 mL	VOA	E	Y	✓ N	1	125 mL	PLASTIC	В	✓Y □N			
2	40 mL	VOA	Α	Y	✓ N	1	100 mL	PLASTIC	F	☐ Y ☑ N			
2	1 L	AMBER	Α	Y	✓ N					□ Y □ N			
1	500mL	PLASTIC	Α	☐ Y	✓ N					□ Y □ N			
1	125 mL	PLASTIC	С	Y	✓ N					☐ Y ☐ N			
CHIDDING	METHOD:	Ecol	7. D4	TE SHIPPE	=D·	Stuli		AIDRII I	WINNED: Q2	69 Kan 2011			

SIGNATURE:

CHECKED



PROJECT NAME:

LE Carpenter & Co.

### **WATER SAMPLE LOG**

PREPARED

PROJECT	ROJECT NUMBER: 004048.0000.0000 BY: PMA DATE: g/l 1/1( BY: DATE:											
SAMPLE	D: MW	, <del>, (</del> 9-14	<b>科学学</b>	WEL	L DIAN	/ET	ER: 2	"	6"  OTH	ER		
WELL MAT	and the same		⊠′ss □	IRON [	GAL	.VAI	NIZED ST	EEL	ОТН	ER		
SAMPLE T	YPE:	<b>⊠</b> GW	□ ww □	SW [	] DI			EACHATE	отн	ER		
PURC	SING	TIME: 08	328 D	ATE: 8/1	17/11		SA	MPLE	TIME: 08	48 D	ATE: 8/17/11	
PURGE	Z	PUMP	BLADORA				PH: 1	<u>-05</u> s		TIVITY: 18		
METHOD		BAILER					ORP:	<u>*53</u> m	V DO:	1.23 mg	g/L	
DEPTH TO			T/ PVC					TY: 7.46	NTU		_	
DEPTH TO			T/ PVC				NONE			MODERATE	UERY	
WELL VOL	***************************************	568	LITERS		LONS			ATURE: <u>[7</u>		OTHER: _		
VOLUME F			LITERS		LONS		COLOR:			ODOR: _	<i>N</i> o	
COLOR:	368	-, Greez		OOR:	JO			E (0.45 um)		□ NO	Adv	
NONE			BIDITY MODERATE		/ERY		QC SAM	COLOR:		FILTRATE OD	OR: NO	
		GROU							250 CO <sub>2</sub>		Fe: 3.0	
	PURGE				9-14-65-11	1	na palijantena esta				<u> </u>	
RATE PH CONDUCTIVITY ORP D.O. TORBIDITY TEMPERATURE LEVEL PURGE VOLUME (ML/MIN) (SU) (umhos/cm) (mV) (mg/L) (NTU) (°C) (FEET) (GAL OF L)												
0828	400	7.03	(840	22			21	368	18.54	7. (0	INITIAL	
6633	1	7.10	1820	- 52	•	1.	06	46.7	17.54	7.15	2	
0835		7.09	1870	-57	<b>t</b> .			15.0	17.70	7.15	9	
0843	1	7.06	1830	~55				7.68	17.81	7.15	6	
0848	300 LOOP LE LOUIS DE LA	7.05	1830	- 53		1.	23	1.46	17-84	7.15	8	
						-						
	, , , , , , , , , , , , , , , , , , , ,								ATTACK TO AND A TO A			
NO.	TE: STABII	LIZATION T	EST IS COMPI	LETE WH	EN 3 S	UC	CESSIVE	READINGS A	RE WITHIN T	HE FOLLOWII	NG LIMITS:	
pH:, +/-	0.1	COND.: +/-	<sup>5 (&lt;1000), 20</sup> ORP	: +/- NA	D	.0.:	+/- 0.3	TURB: +/-	<b>10</b> % or	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C	
BOTTLES	FILLED	PRESERV	ATIVE CODES	A - NO	١E	В-	HNO3	C - H2SO4	D - NaOH	H E-H0	CL F	
NUMBER	SIZE	TYPE	PRESERVAT	IVE FI	LTERE	D	NUMBE	R SIZE	TYPE	PRESERVAT	IVE FILTERED	
2	40 mL	VOA	E		Y	N	1	125 mL	PLASTIC	В	VY N	
2	40 mL	VOA	Α		Y	N	1	100 mL	PLASTIC	F	□ Y ✓ N	
2	1 L	AMBER	• А		Y	N					□ Y □ N	
1	1 500mL PLASTIC A Y N D Y N											
1	125 mL	PLASTIC	С		Y	N					☐ Y ☐ N	
SHIPPING	METHOD:	FROES	e D	ATE SHIF	PPED:	8	3/14/11		AIRBILL N	NUMBER: 86	<b>8</b> 9 1600 3435	
COC NUM		_ ~	s	IGNATUR	RE:	<u>5</u>	Rund	lika	DATE SIG	GNED:	8/17/4	
REVISED	06/2011											



COC NUMBER: REVISED 06/2011

	ROJECT NUMBER: 004048.0000.0000 BY: SP/MA DATE: \$\(\begin{align*} \lambda \text{T} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\											
PROJECT	NUMBER	: 004048	3.0000.0000	B	BY:	SP/MA	DATE: 8/	77/11  BY:		DATE:		
SAMPLE I	D: Mu	-19-13		WELL DI	IAMETI	ER: 🄀	2"	6" OTHE	₹			
WELL MAT	ERIAL:	PVC /	Zss □	IRON 🔲 G	BALVAI	NIZED S	TEEL	OTHE	₹			
SAMPLE T	YPE:	<b>GW</b> GW	□ ww □	SW 🗆 🗆	DI		EACHATE	OTHE	₹			
PURC	BING	TIME: 09	(20 D	ATE: 8/17/	U	SA	AMPLE	TIME: 104	5 DAT	TE: 8/17/11		
PURGE		PUMP	Bloom			PH:	1.01 s	J CONDUCT	IVITY: <u>977</u>	umhos/cm		
METHOD	):	BAILER				ORP: _	-106 m	v do: <u>6</u> -	<u>68</u> mg/l	_		
DEPTH TO	WATER:	6.70	T/ PVC			TURBIE	OITY: <u>127</u>	NTU				
DEPTH TO	DEPTH TO BOTTOM: 14.91 T/ PVC NONE SLIGHT MODERATE VERY											
WELL VOLUME: 5.32 LITERS GALLONS TEMPERATURE: 408 °C OTHER:												
VOLUME F	VOLUME REMOVED: 18 COLOR: COLO											
COLOR: Cloudy ODOR: No FILTRATE (0.45 um) YES NO												
	194 TURBIDITY FILTRATE COLOR: LO FILTRATE ODOR: NO. SAMPLE: MICHAEL DIRECTOR OF THE PROPERTY OF OF TH											
NONE SLIGHT MODERATE VERY QC SAMPLE: MS/MSD DUP-												
DISPOSAL	DISPOSAL METHOD GROUND DRUM OTHER COMMENTS: AIK; 180 Co2: 50 Fz: 16											
TIME PURGE PH CONDUCTIVITY ORP D.O. TURBIDITY TEMPERATURE LEVEL PURGE VOLUME												
(ML/MIN) (SU) (umhos/cm) (mV) (mg/L) (NTU) (°C) (FEET) (GAL ORL)												
0920	400	6-82	850	-38	2.	23	194	18.44	6.70	INITIAL		
0825	200	6.57	845	-23	0.	56	215	17.14	7.60	Z		
0930		6.54	862	-18	0.	39	279	17.21	7.80	3		
2860		6.60	902	-25	0	.26	215	17.63	8.00	4		
०१५०		6.67	911	-34	0	.21	179	16.92	8.10	5		
0945		6.74	924	-45	0	.17	143	16.69	8.20	6		
6950		6.86	944	- 54	O	.16	95.2	16.43	8.25	7		
0955		6.86	952	-64		.12	75.4	16.43	8.35	8		
10-00		6.87	955	-70		.11	63.0	16.41	8.35	9		
2005	J	6.71	963	777			49,3	16.31	8.40	10		
NO	TF: STABII	IZATION T		FTF WHEN				RE WITHIN TH	F FOLLOWING	GIMITS:		
pH: +/-		COND.: +/-		: +/- <b>NA</b>		+/- 0.3				EMP.: +/- <b>0.5°C</b>		
BOTTLES	S FILLED	PRESERV	ATIVE CODES	A - NONE	В-	HNO3	C - H2SO4	D - NaOH	E - HCl	_ F		
NUMBER	SIZE	TYPE	PRESERVAT	IVE FILTE	RED	NUMBE	R SIZE	TYPE	PRESERVATI\	/E FILTERED		
2 40 mL VOA E Y						1	125 mL	PLASTIC	В	VY N		
2 40 mL VOA A Y						1	100 mL	PLASTIC	F	☐ Y ☑ N		
2	1 L	AMBER	Α	Y	✓ N					☐ Y ☐ N		
1	500mL	PLASTIC	А	□ Y	√ N					□ Y □ N		
1	125 mL	PLASTIC	С	Y [	✓ N					☐ Y ☐ N		
SHIPPING	METHOD:	FEOF	× D	ATE SHIPPE	D: _{	3/Alu		AIRBILL N	JMBER: 8689	K60 3435		
COC NUM	OC NUMBER: DATE SIGNATURE: 5 Paulin DATE SIGNED: 8/14/11											



(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LE Carpenter & Co.		PREF	ARED			CHEC	KED
PROJECT NUMBER:	004048.0000.0000	BY:	SF/MA	DATE: 8	17/11	BY:	SM	DATE: 9/6/1/

SAMPLE ID: MW-19-13

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY  (umhos/cm)	ORP (mV)	D.O. ( mg/L)	TURBIDITY (NTU)	TEMPERATURE	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL ORAS)
1010	200	6.94	963	- 8l	0.10	44.9	16.30	8.40	11
1015		6.95	967	- 83	0.09	36.1	16.16	8.43	12
1020		6.95	972	- 86	0.09	26.1	16.10	8.43	13
1025		6.98	973	- 89	0.09	20.8	16.13	8.44	14
1030		7.∞	973	-91	0.09	15.6	16-19	8.45	15
1035	_}	7.02	973	-95	0.68	13.2	16.14	8.45	16
1040	√/	7.03	975	-97	0.09	13.0	16.16	8.45	17
1045		7.64	977	-100	0.68	12.2	16.08	8.45	18
					1777				
									W TOWNS A
	- A AMAZONIA								

SIGNATURE:



DATE SIGNED: 8/17/11

CHECKED

LE Carpenter & Co.

### **WATER SAMPLE LOG**

**PREPARED** 

PROJECT	PROJECT NUMBER: 004048.0000.0000 BY: 67/MA DATE: 8/13/11 BY: 5M DATE: 9/6/1/											
SAMPLE	D: Mu	v-19-6	(R)	WELL	DIAMET	ER:	2"	6"	ER			
WELL MAT	ERIAL:	PVC /	ss [	IRON [	GALVA	NIZED S	STEEL	ОТН	ER			
SAMPLE T	YPE:	GW	□ww □	]sw 🗌	DI		LEACHATE	□ отн	ER			
PURC	SING	TIME: //	20 0	ATE: 8/17/	/11	S	AMPLE	TIME: 133	3 D/	ATE: 8/13/11		
PURGE		PUMP	310000			PH:	7.13 s	U CONDUC	TIVITY: <u>136</u> 5			
METHOD		BAILER				· · · · · · ·			<u>,29                                    </u>	/L		
DEPTH TO			T/ PVC			4	DITY: 2.97			_		
DEPTH TO		,	T/ PVC			NOI			MODERATE	VERY		
WELL VOL		44	LITERS	GALLO		<del>                                     </del>	RATURE: 1		OTHER:			
VOLUME F		16 1600a	LITERS	☐ GALLO	ONS	COLOF				<i>)</i> 0		
COLOR:	134	4	BIDITY	DOR:		1	TE (0.45 um) TE COLOR: <b>(</b>	_	I NO FILTRATE ODG	- 40		
NONE	SLI		MODERATE	∏ VE	RY	QC SA	MPLE: MS	/MSD	DUP-	DR: 199		
DISPOSAL			ND DRUM			<del> </del>			ivz: 25	Fe: 1.0		
	TIME PURGE DE CONDUCTATEV ORD DO THIRDIDITY TEMPERATURE WATER CUMULATIVE											
RATE PH CONDUCTIVITY ORP D.O. TURBIDITY TEMPERATURE LEVEL PURGE VOLUME (ML/MIN) (SU) (umhos/cm) (mV) (mg/L) (NTU) (°C) (FEET) (GAL OR L)												
1120	400	6.93	1335	-34		40	134	70.09		INITIAL		
1125		6.87	1426	-35		11	77.8	18.17	_	2		
1/30	1	6.91	1429	-43	1.	01	45.2	17.69		4		
(135	7	6.94	1398	-42		.94	17.0	17.56	7.80	6		
1140	D.	6.96	1385	-39	1.	09	11.1	17.40	7.80	ß		
t148	BAd	ezy de	At) on fear	pl veh	victe.	Comp	nessor m	opero	rine,	10		
1318		7.14	1388	748		०५	6.82	20.02		10		
1323		7.13	1382	- 39	1.	06	2.83	17.83	7.80	12		
1328		7.13	1370	-32	1.0	25	2.71	17.62	7.80	14		
1333	<b>V</b>	7.13	1365	- 29	1	24	2.97	17.50	7.80	16		
NO <sup>-</sup>	ΓΕ: STABIL	LIZATION T	EST IS COMP	LETE WHEN	1 3 SUC	CESSIVI	E READINGS A	RE WITHIN T	HE FOLLOWIN	IG LIMITS:		
pH: +/-	0.1	COND.: +/-	5 (<1000), 20 (>1000) ORF	P: +/- <b>NA</b>	D.O.:	+/- 0.3	TURB: +/-	<b>10</b> % or	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C		
BOTTLES	FILLED	PRESERV	ATIVE CODES	A - NONE	В-	HNO3	C - H2SO4	D - NaOH	E - HC	L F		
NUMBER	SIZE	TYPE	PRESERVAT	TIVE FILT	ERED	NUMBE	ER SIZE	TYPE	PRESERVATI	VE FILTERED		
2	40 mL	VOA	E	□ Y	✓ N	1	125 mL	PLASTIC	В	✓ Y □ N		
2	40 mL	VOA	Α	□ Y	✓ N	1	100 mL	PLASTIC	F	☐ Y ☑ N		
2	1 L	AMBER	Α	Y	☑ N					□ Y □ N		
1	500mL	PLASTIC	Α	Y	✓ N					□ Y □ N		
1	125 mL	PLASTIC	С	□ Y	✓ N					□ Y □ N		
SHIPPING	METHOD:	FESEX	£ C	ATE SHIPPI	ED: δ	3/17/11	,	AIRBILL N	NUMBER: 86	89 1600 3435		
COC NUME	BER:	NA		GNATURE:		S 72.	ulitiz	DATE SIG		8/14/4		
REVISED	06/2011					100		1		1 17		

## **©TRC**

									Percent Access			
PROJECT NAME: LE Carpenter & Co. PREPARED CHECKED												
PROJECT NU	JMBER:	004048	3.0000.000	0		BY:	SP/MA	DATE:8//	Au BY:	5M	DATE: 9/6///	
SAMPLE ID:	AT	M-01			WELL I	DIAMET	ER: 🗌 2"	<b>4</b> " <b></b>	6" ОТН	1014		
WELL MATERIA	AL:	PVC	ss [	IRO	ON 🗌	GALVA	NIZED STE	EL	ОТН	ER M		
SAMPLE TYPE	: [	] GW	□ ww [	SV	v 🔀	DI	LEA	CHATE	ОТН	ER		
PURGIN	G	TIME:		DATE	:		SAM	PLE	TIME: /40	00	DATE: 8/7/1/	
PURGE	F	PUMP			/		PH:	SI	U CONDUC	TIVITY:	umhøs/cm	
METHOD:	E	BAILER		$ \angle $			ORP:	m	V DO:	r	ng/L	
DEPTH TO WA	ATER: _		T/ PVC				TURBIDIT	Y:	NTU			
DEPTH TO BC	OTTOM:_		TYPVC				NONE	SLI	GHT	MODERATE	☐ VERY	
WELL VOLUME	E:	_/	LITERS		GALLC	NS	TEMPERA	TURE:	°C	отнек:		
VOLUME REM	OVED:		LITERS		GALLC	NS	COLOR:			ODOR:		
COLOR:	$\angle$			ODOR	:		FILTRATE	(0.45 um)	✓ YES	☐ NO		
		TURE	BIDITY				FILTRATE (	COLOR:		FILTRATE O	DOR:	
MONE		HT	MODERATE	Ē	U VE	RY	QC SAMP	LE: 🗍 MS	/MSD	DUP-		
DISPOSAL ME	DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER COMMENTS											
TIME PURGE DI CONDUCTIVITY OPP DO TURBURITY TEMPERATURE WATER CUMULATIVE												
TIME RATE PH CONDUCTIVITY ORP D.U. TORBIDITY TEMPERATURE LEVEL PURGE VOLUME  ' (ML/MIN) (SU) (umhos/cm) (mV) (mg/L) (NTU) (°C) (FEET) (GAL OR L)												
(IV)		(90)	(uminos/cn	1)	(IIIV)	Accept to A	mg/c)	(NIO)	( <b>( )</b>	(	INITIAL	
									****			
NOTE:	STABIL	IZATION T	EST IS COM	<b>IPLET</b>	E WHEN	1 3 SUC	CESSIVE R	EADINGS A	RE WITHIN T	HE FOLLOV	VING LIMITS:	
pH: +/- <b>0.1</b>	C	OND.: +/-	5 (<1000), 20 (>1000)	RP: +/-	NA .	D.O.:	+/- 0.3	TURB: +/-	<b>10</b> % or	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C	
BOTTLES FI	LLED	PRESERV	ATIVE CODI	<u>ES</u> A-	- NONE	В-	HNO3	C - H2SO4	D - NaOH	l E-	HCL F	
NUMBER S	SIZE	TYPE	PRESERV	ATIVE	FILT	ERED	NUMBER	SIZE	TYPE	PRESERVA	ATIVE FILTERED	
2 4	0 mL	VOA	E		□ Y	✓ N	1	125 mL	PLASTIC	В	N	
2 4	0 mL	VOA	А			✓ N	. 1	100 mL	PLASTIC	F	□Y VN	
2	1 L	AMBER	Α		Y	✓ N					DY N	
1 50	00mL	PLASTIC	Α		_       	✓ N						
		PLASTIC	С		□ Y	☑ N					□ Y □ N	
SHIPPING ME	THOD:	FEOEX		DATE	SHIPP	ED:	8/17/11		AIRBILL I	NUMBER: 8	689 1606 3435	
COC NUMBER	₹:	w		SIGN	ATURE:		5 Paul	ehi	DATE SIG	GNED:	8/17/11	
REVISED 06/2	2011			l				7				

## **OTRC**

PROJECT	PROJECT NAME: LE Carpenter & Co. PREPARED CHECKED											
PROJECT	NUMBER	R: 00404	8.000.0000	ВҮ	:	€Ð/MA	DATE: S	17/11 BY:	SM	DATE:9/6/1/		
SAMPLE	ID: Mu	1-19-7	'(R)	WELL DIA	MET	ER: 2"	4"	6"	ER			
WELL MAT	<b>45,000,005,0</b> 2,020,005,005,005,005,005	Selber Helder Her Style Medic De	⊠ss □	IRON GA	LVA	NIZED STE	EL	ОТН	ER			
SAMPLE T	YPE:	₫w	□ ww □	SW 🗌 DI		LE	ACHATE	□ отн	ER			
PUR	BING	TIME: /4	<u>1</u>	ATE: 8/17/1	l	SAN	APLE .	TIME: 144		DATE: 8/17/11		
PURGE METHOD		PUMP	3(000er							89 umhos/cm		
DEPTH TO		BAILER 57 U.S.	T/ DVO			ORP:	<u>54                                    </u>		<u>.52</u> n	ng/L		
DEPTH TO			T/ PVC			NONE		NTU	MODERATE	☐ VERY		
WELL VOL		5.13	LITERS	GALLONS			TURE: 16		OTHER:			
VOLUME I	REMOVED		LITERS	GALLONS		COLOR:	ch		ODOR:	7 <b>0</b>		
COLOR:												
64.4 TURBIDITY FILTRATE COLOR: COR FILTRATE ODOR: NO												
NONE     □ SLIGHT     ✓ MODERATE     □ VERY     QC SAMPLE:     □ MS/MSD     □ DUP-												
DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS: AIR: 140 Coz: 30 Fe: 10												
TIME PURGE PH CONDUCTIVITY ORP D.O. TURBIDITY TEMPERATURE LEVEL PURGE VOLUME (ML/MIN) (SU) (umhos/cm) (mV) (mg/L) (NTU) (°C) (FEET) (GAL OF L)												
1417	400	6.30	932	89	1.	65 6	54.4	21.49	7.46	INITIAL		
1422	$\perp$	6.36	1093	56	0	.81 /	141	19.10	7.46	2		
1427		6.73	1181	-12	0	.69 4	17.9	18.68	7.46	4		
1432	V	6-90	1190	-37	6.	.62 2	?0.0	18.41	7.46	6		
1437		6.97	1191	-49	0	.55	11.8	18.43	7.46	8		
1442		7.00	1189	- 54	0	.52	7.64	18.41	7.46	16		
	<b>&gt;</b>											
							r					
					ļ		The Manager of the Ma					
NO.			EST IS COMPL	ETE WHEN 3	SUC	CESSIVE R	READINGS A	RE WITHIN T	HE FOLLOW	ING LIMITS:		
pH: +/-	0.1	COND.: +/-	5 (<1000), 20 (>1000) ORP:	+/- <b>NA</b> [	0.0.:	+/- 0.3	TURB: +/-	<b>10</b> % or	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C		
BOTTLES	FILLED	PRESERV	ATIVE CODES	A - NONE	В-	HNO3	C - H2SO4	D - NaOH	I E-⊦	ICL F		
NUMBER	SIZE	TYPE	PRESERVATI	VE FILTER	ΕD	NUMBER	SIZE	TYPE	PRESERVA	TIVE FILTERED		
2	40 mL	VOA	E		N	1	125 mL	PLASTIC	В	✓ Y □ N		
2	40 mL	VOA	A	□ Y ☑	N	1	100 mL	PLASTIC	F	□ Y ☑ N		
2	2 1 L AMBER A Y V N											
1	1 500mL PLASTIC A											
1	125 mL	PLASTIC	С	□ Y	N					□ Y □ N		
SHIPPING	METHOD:	FEOE	<b>Z</b> DA	ATE SHIPPED:		8/17/11		AIRBILL N	NUMBER: 8	689 1600 3435		
COC NUME	BER:	NO	SI	GNATURE:	5	Paul	lihi.	DATE SIG	SNED: 8	7/13/11		
REVISED	REVISED 06/2011											

8/17/11

DATE SIGNED:



COC NUMBER:

REVISED 06/2011

#### **WATER SAMPLE LOG**

	<del></del>							TE DOMESTICAL COLOR SERVE				
PROJECT NA		· · · · · · · · · · · · · · · · · · ·	rpenter & Co				PARED		CHEC			
PROJECT NU	JMBER	: 004048	8.0000.0000		BY:	SP/MA	DATE: 8/1	7/11 BY:	SM	DATE: 9/6/1/		
SAMPLE ID:	Mu	1-19 (R		WELL	DIAMET	ER: Z	."	6"  OTH	ER			
WELL MATERIA	AL:	DVC	ss [	] IRON [	GALVA	NIZED ST	EEL	ОТН	ER			
SAMPLE TYPE	:	GW	ww	]sw 🔲	DI	L	EACHATE	□ отн	ER			
PURGIN	G	TIME: 15	12	ATE: 8/17	U	SA	MPLE	TIME: 15	41 DA	ATE: 8/17/11		
PURGE			3(DODES			PH:	7.18 s	U CONDUC	CTIVITY: 144	D umhos/cm		
METHOD:		BAILER				ORP: _	<u>~53</u> m	V DO:	<u>0.67</u> mg	/L		
DEPTH TO WA	ATER:	7.20	T/ PVC			TURBID	ITY: <u>9.5</u>	NTU				
<b>DEPTH TO BO</b>	TTOM:	15.19	T/ PVC			NONE SLIGHT MODERATE VEF						
WELL VOLUME	<u>:</u>	5.18	LITERS	GALLO	NS	TEMPER		6-86_°C	OTHER:			
VOLUME REM			LITERS	GALLO	NS	COLOR:	<u> Clr</u>		ODOR: 10			
COLOR:		COY	0	DOR: NO		FILTRAT	E (0.45 um)	✓ YES	☐ NO			
l	358	_	BIDITY			FILTRATI	COLOR: C	l2	FILTRATE ODG	OR: <b>NO</b>		
	SLIC		MODERATE	VEI		QC SAM		/MSD	DUP-			
DISPOSAL METHOD GROUND DRUM OTHER COMMENTS: Alk: 130 Coz: 35 Fe:20												
County (Section 1997) And the County	IRGE ATE	PH	CONDUCTIVIT	Y ORP		D.O.	TURBIDITY	TEMPERATU	RE WATER	CUMULATIVE		
	JMIN)	(SU)	(umhos/cm)	(mV)		mg/L)	(NTU)	(°C)	LEVEL (FEET)	PURGE VOLUME (GAL OR L)		
1512 4	90	7.12	1387	-45	. 2	244	328	<i>U.</i> 23	7.70	INITIAL		
15/7	1	7.13	1389	-34		7.77	133	16-76	7.20	Z		
1255	1	7.14	1398	-34	C	.62	58.3	16.94	7.20	4		
1527		7.13	1417	- 40		0.65	40.Z	16.97	7.70	6		
1532		7.14	1432	- 4 8	0	.66	26.7	16.85	7.70	8		
1537		7.16	1437	-51	6	7.73	18.1	16.96	7.70	10		
1542	ľ	7,18	1441	-52	0	2-54	14.2	16.78	7.20	12		
1547	1	7.18	1440	- 53	C	2.62	9.5	16.86	7.20	14		
						***		6000				
NOTE:	STABII	IZATION T	EST IS COMP	LETE WHEN	13 800	CESSIVE	READINGS 4	RF WITHIN T	THE FOLLOWIN	IG I IMITS:		
pH: +/- <b>0.1</b>		OND.: +/-		P: +/- NA		+/- 0.3	TURB: +/-			TEMP.: +/- 0.5°C		
BOTTLES FIL	LED	PRESERV	ATIVE CODES	A - NONE	В-	· HNO3	C - H2SO4	D - NaOH	H E-HC	CL F		
NUMBER S	SIZE	TYPE	PRESERVA	TIVE FILTI	ERED	NUMBE	R SIZE	TYPE	PRESERVATI			
2 40	) mL	VOA	Е	Y	✓ N	1	125 mL	PLASTIC	В	✓Y □N		
2 40	0 mL	VOA	Α	□ Y	✓ N	1	100 mL	PLASTIC	F	□Y ☑N		
2	1 L	AMBER	Α	Y	✓ N				7700	Y N		
1 50	00mL	PLASTIC	Α	Y	_ N					□ Y □ N		
1 12	5 mL	PLASTIC	С	Y	✓ N					□ Y □ N		
SHIDDING MET												
JOHIEPING ME	ו חטט:	FED E	<u>×</u>  L	WIE SHILLF	ΞU:	0117/1		AIRBILL	MOMRFK: 848	19 1600 3435		

SIGNATURE:

CHECKED



PROJECT NAME:

LE Carpenter & Co.

#### **WATER SAMPLE LOG.**

**PREPARED** 

PROJECT	ROJECT NUMBER: 004048.0000.0000 BY: 5P/MA DATE: 8/17/11/11/18Y: 5M DATE: 7/6/1/											
SÄMPLE	WELL DIAMETER: 2" 4" 6" OTHER											
WELL MAT			zss 🗆	IRON GAI	LVANIZED	STEEL	□ отн	ER				
SAMPLE T	YPE:	GW	ww	SW DI		LEACHATE	□ отн	ER				
PURO	BING	TIME: 16	78 D/	ATE: 8/17/(/		SAMPLE	TIME: 164	8 DA	ATE: 8/17/11			
PURGE		PUMP	Blance		PH:	7.25	SU CONDUC	TIVITY: 14(L	umhos/cm			
METHOD		BAILER						<u>45</u> mg	/L			
DEPTH TO	<del></del>		T/ PVC		TURE	BIDITY: 200	NTU					
DEPTH TO	воттом	15.86	T/ PVC		N	ONE SL	IGHT 🗌	MODERATE	☐ VERY			
WELL VOLUME: 3.35 LITERS GALLONS TEMPERATURE: 16.71 °C OTHER:												
VOLUME REMOVED: 12 LITERS GALLONS COLOR: ODOR: 5(19ht												
COLOR: COLOR: Sight FILTRATE (0.45 um) YES NO												
19.9 TURBIDITY FILTRATE COLOR: Cla FILTRATE ODOR: 51-6/hd												
NONE SLIGHT MODERATE VERY QC SAMPLE: MS/MSD DUP- 02												
DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS: Alk: 300 Coz: 70 Fe:> 20												
TIME PURGE PH CONDUCTIVITY ORP D.O. TURBIDITY TEMPERATURE WATER CUMULATIVE LEVEL PURGE VOLUME												
1618	(MLMIN) 400	(SU) 7.15	(umhos/cm) /265	-73	(mg/L) 2.12	(NTU) (9.9	20.5°C	7.60	(GAL OR(L)) INITIAL			
1673	1	7.13	1286	-97	0.85	-	18.08		Z			
1628	1	7.15	1326	-99	0.52	27.9	17.86		4			
1633		7.17	1366	-103	0.46	25-1	17.37		6			
		•	1408	***		21.8	17.10		8			
1638		7.22		-108	0.45			7.60				
1643		7.25	1414	-111	0.46	15.6	16.89	7.60	10			
1648		7.25	1414	-112	0.45	9.00	16.71	7.60	12			
NO				ETE WHEN 3 S	UCCESSI	VE READINGS	ARE WITHIN T	HE FOLLOWIN	IG LIMITS:			
pH: +/-	0.1	COND.: +/-	5 (<1000), 20 (>1000) ORP:	+/- <b>NA</b> D	.O.: +/- <b>0.</b> :	3 TURB: +/-	<b>10</b> % or	= 10</td <td>TEMP.: +/- <b>0.5°C</b></td>	TEMP.: +/- <b>0.5°C</b>			
BOTTLES	FILLED	PRESERV	ATIVE CODES	A - NONE	B - HNO3	C - H2SO4	D - NaOH	E - HC	L F			
NUMBER	SIZE	TYPE	PRESERVATI	VE FILTERE	D NUM	BER SIZE	TYPE	PRESERVATI	VE FILTERED			
42	40 mL	VOA	Е	_ Y _	N 7,1	125 mL	PLASTIC	В	✓Y □N			
42	40 mL	VOA	А	_ Y 🗸	N 2/1	100 mL	PLASTIC	F	□Y ☑N			
42	1 L	AMBER	Α	□ Y ☑	N				□Y □N			
2 500mL PLASTIC A Y N												
74	125 mL	PLASTIC	С	□ Y ☑	N				□ Y □ N			
SHIPPING I	METHOD:	FEOE	< D/	ATE SHIPPED:	8/1:	3/11	AIRBILL N	NUMBER: GCR	9 1600 3435			
COC NUME	BER:	AVA		GNATURE:	5 P	l.b.	DATE SIG		8/17/11			
REVISED (					<u>ء ر ر</u>	muny -			717/1			

### **QTRC**

REVISED 06/2011

PROJECT NAME: LE Carpenter & C	Co.	/ PREPARED		CHECKED		
PROJECT NUMBER: 004048.0000.000	00 BY:	SP/MA DATE: 8	HILL BY:	5m DATE:9/6/11		
SAMPLE ID: WELL DIAMETER: \ 2" \ 4" \ 6" \ OTHER						
WELL MATERIAL: PVC SS	RON GALV	ANIZED STEEL	OTHER	₹.		
SAMPLE TYPE: SGW WW	SW DI	LEACHATE	OTHER	₹		
PURGING TIME: 41.45	DATE:	SAMPLE	TIME: 10:41	U DATE: 3/17/1		
PURGE PUMP Blad	de/	PH: 6.99 5		VITY: 783 umhos/cm		
METHOD: BAILER		ORP: <u>-(6)</u> n	nV DO: 🙋	.GÒ mg/L		
DEPTH TO WATER: 263 T/ PVC		TURBIDITY: 54.				
DEPTH TO BOTTOM: 11.42 T/ PVC		NONE SL		ODERATE VERY		
WELL VOLUME: 5.73 ☑ LITERS  VOLUME REMOVED: 30 ☑ LITERS	GALLONS	TEMPERATURE: 19		THER:		
	GALLONS ODOR: Strong	COLOR: CAS		DOR: Slight		
TURBIDITY	ODOR. STRATE	FILTRATE (0.45 um) FILTRATE COLOR:		INO SIGNITION SIGNITION IN THE CONTRACT		
NONE SLIGHT MODERATE	▼ VERY		MSD X			
DISPOSAL METHOD: GROUND DRU	IM / OTHER	COMMENTS: FO	17 A)	K:160 (01:20		
TIME, PURGE PH CONDUCTIVI	TY ORP	D.O. TURBIDITY	TEMPERATURE	WATER   CUMULATIVE		
RATE (ML/MIN) (SU) (umhos/cm)		mg/L) (NTU)	(°C)	LEVEL PURGE VOLUME (FEET) (GAL OR/L)		
9:47 -100 10:76 790	12	2.10 >800	74 74	256 INITIAL		
9:52 400 6. K 790		00 7800	19.25	258 26		
9:57 400 6.64 788		1.00 >800	19.99	258 4		
10:02 400 6.64 788	-144	1.00 382	18.91	2.57 66		
1007 400 6.71 787	- 154 0	, ,	18.85	2.59 82		
12/12 400 6-78 786	-159 0	00 154	18.85	2.59 106		
10:17 400 686 785	-163 0	00 111	18.94	2.56 126		
10:22 400 6:42 783	-165 0	-00 80.7	19.03	2.58 142		
10.27 400 6.93 787		.00 62.7	19.12	2.60 164		
10.32 400 6-97 783	-158 0	.00 58.1	19.15	2.41 184		
NOTE: STABILIZATION TEST IS COMP			RE WITHIN THE	FOLLOWING LIMITS:		
£ (<1000\ 20	_	+/- <b>0.3</b> TURB: +/-				
BOTTLES FILLED PRESERVATIVE CODES	A - NONE B -	HNO3 C - H2SO4	D - NaOH	E-HCL F		
NUMBER SIZE TYPE PRESERVAT	TIVE FILTERED	NUMBER SIZE	TYPE PR	ESERVATIVE FILTERED		
2 40 mL VOA E	□Y ☑ N	1 125 mL	PLASTIC	B VY N		
2 40 mL VOA A	□Y ☑ N	1 100 mL	PLASTIC	F Y V		
2 1 L AMBER A	□ Y ☑ N			□ Y □ N		
1 500mL PLASTIC A	Y V N			□ Y □ N		
1 125 mL PLASTIC C	□ Y ☑ N			□ Y □ N		
SHIPPING METHOD: FED E	ATE SHIPPED: 4	/17/11	AIRBILL NUMI	BER: 8689 (co) 3435		
COC NUMBER: M	GIGNATURE: M	let The Als	DATE SIGNED	_		



#### WATER SAMPLE LOG (CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LE Carpenter & Co.		PŘEF	ARED				CHEC	KED _
PROJECT NUMBER:	004048.0000.0000	BY:	SP/MA	DATE:	ह्य	4/1	ì	BY:	DATE:

SAMPLEID: Mid-305
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TIME	PURGE RATE (ML/MIN)	PH (SU)	GENDUCTIVITY		D:O.	TURBIDITY (NTU)	TEMPERATURE	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL GR.L)
10:37	400	699	743.	-162	0.00	54.6	14.18	2.59	
		:							
						·		1.0000000000000000000000000000000000000	
							,		
						N			

DATE SIGNED: 4//7//

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PROJECT NAME: LE Carpenter & Co. PREPARED	CHECKED					
PROJECT NUMBER: 004048.0000.0000 BY: SP/MA DATE: 8 13 14 14	BY: SM DATE: 9/6/1/					
SAMPLE ID: WELL DIAMETER: Z 2" 4" 6" OTHER						
WELL MATERIAL: PVC SS IRON GALVANIZED STEEL	OTHER					
SAMPLE TYPE: GW WW SW DI LEACHATE	OTHER					
PURGING TIME: 11:24 DATE:8/17/11 SAMPLE TIME	: 1211 DATE: 12:19					
	CONDUCTIVITY: 75) umhos/cm					
METHOD: DAILER ORP: 153 mV DO	O: <u> </u>					
DEPTH TO WATER: 2.3 > T/ PVC TURBIDITY: 85.4 N	TU					
DEPTH TO BOTTOM: 17.45 T/ PVC NONE SLIGHT	☐ MODERATE ☐ VERY					
WELL VOLUME: 965 SITERS GALLONS TEMPERATURE: 16-8	CC OTHER:					
VOLUME REMOVED: 18 LITERS GALLONS COLOR: Clear	ODOR: Stalt					
COLOR: ODOR: Moderal FILTRATE (0.45 um) V	ES NO					
TURBIDITY FILTRATE COLOR: <a href="#">Len.</a>	FILTRATE ODOR:					
NONE ☐ SLIGHT ☑ MODERATE ☐ VERY QC SAMPLE: ☐ MS/MSD	DUP					
DISPOSAL METHOD GROUND DRUM OTHER COMMENTS:	AK 5160 CO.05					
TIME PURGE PH CONDUCTIVITY ORP D.O. TURBIDITY TEMP	PERATURE WATER CUMULATIVE LEVEL PURGE VOLUME					
(ML/MIN) (SU) (umhos/cm) (mV) ( mg/L) (NTU)	(°C) (FEET) (GAL QR ()					
11-26 400 6.84 760 -109 7.93 277 18	5.37 J.2) INITIAL					
11:31 400 641 711 -113 100 206 1	101 227 DL					
11:36 400 640 775 - 20 449 154 16	5. SE 23.					
141 400 642 72 -124 3.76 130 16	(82 2.27 (1					
11:46 400 6.47 779 128 298 112 10	6.75 2.28 8L					
11:51 400 6.50 781 -131 1.58 102 10						
	6.84 2.29 126					
10:01	· 78 2.28 14L					
765						
	(-85 2.27 18)					
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WI						
pH: +/- 0.1 COND.: +/- (>1000) ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10 %	or = 10 TEMP.: +/- 0.5°C<sub **					
BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D -	NaOH E - HCL F					
NUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE	PE PRESERVATIVE FILTERED					
2 40 mL VOA E Y N 1 125 mL PLAS	STIC B Y N					
2 40 mL VOA A Y N 1 100 mL PLAS	STIC F Y N					
2 1 L AMBER A Y N	ĬŸ □N					
1 500mL PLASTIC A Y N	☐ Y ☐ N					
1 125 mL PLASTIC C Y N	□ Y □ N					
SHIPPING METHOD: FED E. DATE SHIPPED: 4/17/11 AIR	BILL NUMBER: 8699 1600 3434					
	TE SIGNED: 4/11/					

C	T	RC
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PROJECT NAME: LE Carpenter & Co.	PREPARED , CHECKED					
PROJECT NUMBER: 004048.0000.0000 BY:	SP/MA DATE: 8/14/11 BY: SM DATE: 9/6/11					
WELL DIAMETER: \$\tilde{\mathbb{Z}} 2" \ 4" \ 6" \ OTHER  WELL MATERIAL: PVC SS   IRON GALVANIZED STEEL OTHER  SAMPLE TYPE: \$\tilde{\mathbb{G}} GW \ WW \ SW \ DI \ LEACHATE \ OTHER						
PURGING TIME: 13:57 DATE: 8/17/1	SAMPLE TIME: 14:46 DATE: 8/17/11  PH: _6:75 SU CONDUCTIVITY: _637 umhos/cm					
METHOD: BAILER	ORP:S6_ mV DO: 7.569 mg/L					
DEPTH TO WATER: 2 07 T/ PVC DEPTH TO BOTTOM: 24. N T/ PVC	TURBIDITY: NTU  NONE SLIGHT MODERATE VERY					
WELL VOLUME: 13.65 🔀 LITERS 🗌 GALLONS	TEMPERATURE: 5/9 °C OTHER:					
VOLUME REMOVED: 14 ∑ LITERS ☐ GALLONS	COLOR: <u>Clex</u> ODOR: <u>NO</u>					
color: Reddish odor: No	FILTRATE (0.45 um)  YES  NO					
TURBIDITY  NONE SLIGHT MODERATE W VERY	FILTRATE COLOR: FILTRATE ODOR: QC SAMPLE: MS/MSD					
DISPOSAL METHOD GROUND DRUM OTHER	COMMENTS: Fe: 2 AIK: 180 (0:14)					
TIME PURGE PH CONDUCTIVITY ORP (ML/MIN) (SU) (umhos/cm) (mV)	D.O. TURBIDITY TEMPERATURE WATER CUMULATIVE LEVEL PURGE VOLUME (mg/L) (NTU) (°C) (FEET) (GAL OF L)					
14:0400 7.32 576 -74	2 YOU DIED INITIAL					
17:10 400 7:09 556 -58	5.15 7800 16.26 2.11 2					
	5.90 543 1543 2.09 4					
14:20 400 6.64 6 11 -51	5.08 173 15.08 213 6					
14:25 4006.65 617 -53	7.89 72.2 1502 210 8					
14.20400667637 -54	7.60 76.8 K.09 2.09 10					
1439 400 6.71 639 56	7.85 72 5 15.07 2.13 12					
14:40 400 6.15 637 -50	7.89 70.2 1519 AII H					
	*					
<u> </u>						
	CCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:					
pH: +/- <b>0.1</b> COND.: +/- (1000), 20 ORP: +/- <b>NA</b> D.C	D: +/- 0.3 TURB: +/- 10 % or = 10 TEMP.: +/- 0.5°C</td					
BOTTLES FILLED PRESERVATIVE CODES A NONE B	- HNO3 C - H2SO4 D - NaOH E - HCL F					
NUMBER SIZE TYPE PRESERVATIVE FILTERED	NUMBER SIZE TYPE PRESERVATIVE FILTERED					
2 40 mL VOA E Y V	1 125 mL PLASTIC B					
2 40 mL VOA A Y N						
2 1 L AMBER A Y V N						
1 500mL PLASTIC A Y V						
1 125 mL PLASTIC C Y V N						
SHIPPING METHOD: DATE SHIPPED:	4/17/11 AIRBILL NUMBER: \$60 1600 3435					
COC NUMBER: SIGNATURE:	Math DATE SIGNED: 4/17/11					

Q	T	R	C
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#### **WATER SAMPLE LOG**

PROJECT N	NAME:	LE Ca	rpenter & C	o.		PRE	PARED		CHE	CKED
PROJECT N	NUMBE	R: 00404	8.0000.000	00	BY:	SP/MA	DATE: 8	12/11 BY:	5m	DATE: 9/6/11
	SAMPLE ID: W W C SS									
SAMPLE TYP		 GW	ww	sw 🗆	DI		EACHATE			
PURGI	NG	TIME:	57D	DATE:Q//	1/11	SA	MPLE	TIME: 15:	53	DATE:8/17/II
PURGE METHOD:	<b>Y</b>	PUMP BAILER	Bludd	e/	<del>7 - 1-</del>	PH: _(	6.90 s	U CONDU	CTIVITY: 80	on umhos/cm
DEPTH TO V	VATER:	4.98	T/ PVC			TURBID		NTU		
DEPTH TO E	BOTTOM	17.49	T/ PVC				E SLI	GHT 🔀	MODERATE	☐ VERY
WELL VOLU	ME:	7.72	LITERS	GALLO	NS	TEMPER	ATURE: 15	.99°C	OTHER: _	
VOLUME RE	MOVED	: 12	✓ LITERS	GALLO	NS	COLOR:	Cley		ODOR: _	No.
COLOR:	13	lack		odor: <u>//</u> c	)	FILTRAT	E (0.45 um)	✓ YES	□ NO	
		TUR	BIDITY			FILTRATE	COLOR: _C	1061	FILTRATE OD	OR: 0
NONE	SL	IGHT 🗌	MODERATE	VEI	RY	QC SAM	PLE: MS/	MSD	DUP-	
DISPOSAL N	METHOD	: GROU	ND DR	JM 🔽 OTHER	₹	COMME	NTS: e:	14 /	41K:130	CO2, 32
IIME	PURGE RATE	PH	CONDUCTIV				TURBIDITY (NTU)	TEMPERATU	LEVEL	CUMULATIVE PURGE VOLUME (GAL OR(L))
12'.14	VILMIN)	(SU)	(umhos/cn	1) (mV)		mg/L)		19,47	(FEET) 4.86	INITIAL
2.19	400	674		-17	= 0	7.70	)900 653	16.6	4.90	7
		6.12	907	-129		0.00	03)	10.01		,
1		6.73	<u>-</u>	121	•	(00,	347	16.96	484	
15,29	<u> 100</u>	012	810			).60	234	16,10	<u> 4.9.</u>	
15:34	100	0.16	509	1-133	. 1	0.00	190	16.05	4.8	
Far	4/00	6.81	800	-136		00.0	178	16.00	5 4.90	1
15.41	[-]	6.90	809	-/4/-	2 (	1.00	164	15.90	9 4.9	+ 12
	·				_					
					-					
NOTE	CTADU	IZATION T	FOT IS COM	IDI ETE MUEN	2 0110	OFCON/F I	DEADINGS A	DE MUTUUM T	THE FOLLOW!	NC LIMITS.
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:  pH: +/- 0.1 COND.: +/- (21000) ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10 % or = 10 TEMP.: +/- 0.5°C</td										
BOTTLES F	ILLED	PRESERV	ATIVE CODE	S A - NONE	В-	HNO3	C - H2SO4	D - NaOH	f E - H0	CL F
NUMBER	SIZE	TYPE	PRESERV	ATIVE FILTE	RED	NUMBER	SIZE	TYPE	PRESERVAT	IVE FILTERED
2 4	40 mL	VOA	E	□ Y	✓ N	1	125 mL	PLASTIC	В	VY N
2 4	40 mL	VOA	Α	ΠY	✓ N	1	100 mL	PLASTIC	F	Y
2	1 L	AMBER	Α	Y	✓ N					□ Y □ N
1 5	00mL	PLASTIC	Α	Y	✓ N					□ Y □ N
1 1	25 mL	PLASTIC	С	□ Y	✓ N					□Y □N
SHIPPING ME	THOD:	FED	Ey	DATE SHIPPE	D: _ <	8/17/11		AIRBILL N	NUMBER: 8	689 600 3435
COC NUMBER	₹:	M		SIGNATURE:	_/	Vet Z	1/1	DATE SIG		9/17/11

### **QTRC**

**REVISED 06/2011** 

PROJECT NAME: LE Carpenter & Co.		· PRE	PARED		CHEC	CKED
PROJECT NUMBER: 004048.0000.0000 .	BY:	SP/MA	DATE: 8	17/11 BY:	Sm	DATE:9/6/11
SAMPLE ID: MW-JG/ WELL DIAMETER: 2" 4" 6" OTHER						
WELL MATERIAL: PVC SS IRON GALVANIZED STEEL OTHER						
SAMPLE TYPE: GW WW SW DI LEACHATE OTHER						
PURGING TIME: 16:17 DATE: 8/17	1/1	SA	MPLE	TIME:	00C1 D	ATES/17/1
PURGE PUMP BLAPGE.  METHOD: BAILER		PH:		SU CONDU	O.60 mg	O umhos/cm
DEPTH TO WATER: 4.80 T/ PVC		TURBIDI		2 NTU		,,
DEPTH TO BOTTOM <u>22.68</u> T/ PVC		NONE			MODERATE	☐ VERY
WELL VOLUME: 1.59 LITERS GALLO	NS	TEMPERA	ATURE: 1	5.67°c	OTHER:	
VOLUME REMOVED: 16 ILITERS GALLO	NS	COLOR:	Clear	-	ODOR:	νo.
color: Dlack odor: No		FILTRATE		✓ YES	□ NO	
TURBIDITY	-		color:		FILTRATE ODG	DR:
NONE SLIGHT MODERATE VE		QC SAM	PLE: 🔀 MS	/MSD	DUP-	
DISPOSAL METHOD: GROUND DRUM OTHER	₹	COMMEN	NTS: Fe:	1)	Alkiso	(C): 25
TIME PURGE PH CONDUCTIVITY ORP	-   E	0.0.	TURBIDITY	TEMPERATI	JRE WATER	CUMULATIVE PURGE VOLUME
(ML/MIN) (SU) (umhos/cm) (mV)	(n	ng/L)	(NTU)	(°C)	(FEET)	(GAL OP(I))
16.19 400 6.81 784 75	- 1,	36	1800	17.64	1 4.80	INITIAL
16.244006.95 901 -13:		90	7500	15-97	4.79	2
16.29 400 6.84 918 -134	$\mathcal{O}$ .	00	655	16.03	4.81	4
16:34400 6.81 942 -123	0	00	153	15.73	4.80	6
16:39400 6.96 947 -139	0	.00	119	15.61	1 4.78	- 8
16:44 400 7.07 981 -147	0	00	49.6	15.65	450	10
16:49 :00 7.18 955 -154	0	.00	29.2	15.60	1000	12
16:54 460 7.26 989 - 150	0	00	29.0	15.6	400	14
16:50 400 7:30 960 -163		00	28.2		2.1	(6)
				100		
NOTE: STABILIZATION TEST IS COMPLETE WHEN	3 SUCCE	ESSIVE R	EADINGS A	RE WITHIN T	HE FOLLOWING	G LIMITS:
pH: +/- <b>0.1</b> COND.: +/- <sup>6 (&lt;1000)</sup> ORP: +/- <b>NA</b>	D.O.: +		TURB: +/- '			EMP.: +/- 0.5°C
BOTTLES FILLED PRESERVATIVE CODES A - NONE	В-Н	INO3	C - H2SO4	D - NaOH	E - HCL	. F
NUMBER SIZE TYPE PRESERVATIVE FILTE	RED N	NUMBER	SIZE	TYPE	PRESERVATIV	E FILTERED
2 40 mL VOA E Y	✓ N	1	125 mL	PLASTIC	В	VY N
2 40 mL VOA A	✓ N	1	100 mL	PLASTIC	F	□ Y ☑ N
2 1 L AMBER A Y	✓ N					□ Y □ N
1 500mL PLASTIC A Y	√ N					□ Y □ N
1 125 mL PLASTIC C	√ N					□ Y □ N
SHIPPING METHOD: FED Ex DATE SHIPPE	D: 4/	/17/1		AIRBILL N	UMBER: 869	89 1600 3435
COC NUMBER: SIGNATURE:	N	lotth	II _	DATE SIG		7/11

0	T	R	C

PROJECT	NAME:	LE Ca	rpenter & C	О.	- E	PRE	PARED		CHEC	KED		
PROJECT	NUMBE	R: 00404	8.0000.000	0	BY:	SP/MA	DATE: 8/1	SU BY:	5m	DATE:9/6/11		
SAMPLE ID: MV-312 WELL DIAMETER: 2" 4" 6" OTHER												
WELL MATERIAL: PVC SS IRON GALVANIZED STEEL OTHER												
SAMPLE TYPE: GW WW SW DI LEACHATE OTHER												
PURGING TIME: 15:12 DATE: 9/15/11 SAMPLE TIME: 10:24 DATE: 9/16/												
PURGE PUMP BEODERD PH: 7.04 SU CONDUCTIVITY: 1070 umh												
METHOD	):	BAILER		<u>-133</u> m	V DO:	<u>Ø.∞</u> mg	J/L					
DEPTH TO WATER: 4.59 T/ PVC TURBIDITY: 4.9 NTU												
DEPTH TO BOTTOM 10.0% T/ PVC NONE SLIGHT MODERATE VERY												
WELL VOLUME: 3.34 VILTERS GALLONS TEMPERATURE: 14.35 °C OTHER:												
VOLUME REMOVED: 18 DITERS GALLONS COLOR: Cless Tellor Sheen ODOR: Moderate												
COLOR: Black, Oily Sheen ODOR: Strong FILTRATE (0.45 um) VES NO												
TURBIDITY FILTRATE COLOR: Vellavis M FILTRATE ODOR:												
NONE SLIGHT MODERATE VERY QC SAMPLE: MS/MSD DUP-												
DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS: Fc! 0.0 Alk! 150 CO, 1 >10												
TIME*	PURGE	PH	CONDUCTIV	ITY ORP		D.O.	TURBIDITY	TEMPERATI	IRE WATER	CUMULATIVE		
	RATE (ML/MIN)	(SU)	(umhos/cn		1	mg/L)	(NTU)	(°C)	LEVEL (FEET)	PURGE VOLUME (GAL OR (1)		
15:12	400	962	864	-260		52	434	18.96	4.64	INITIAL		
15:17	400	9.40	834	-262		2.91	123	19.10	5.12	2		
15:22	400	8,27	933	-23	,	1.00	47.7	1930	- : a	4,)		
15:27	400	7.04	1200		; \ \	.00	19.2	19,41	5.13	(2)		
			, <b>,</b> ,	-17			15.8	19,31	5.11	8		
15:32		6.584	1200			.06	14.1	*	512	$t_0$		
15.37	400	6.97	1116	-155		-00	- 7	19.34		, .		
15:42	400	6.94	1107	-134	O	00	13.1	19.31	5.13	12		
15:47	400	6.98	1080	-130	0	.00	4.9	19.34	5.12	19		
15:52	400	7.01	1070	-13	3 0	·00	7.6	19.3C	5.13	16		
15:57	400	7.04	1070	-137	5 0	00	60	19.35	54	18		
NO.	TE: STABI	LIZATION T	EST IS CON	IPLETE WHEN	N 3 SUC	CESSIVE	READINGS A	RE WITHIN 1	THE FOLLOWIN	IG LIMITS:		
pH: +/-	0.1	COND.: +/-	5 (<1000), 20 (>1000) Of	RP: +/- <b>NA</b>	D.O.:	+/- 0.3	TURB: +/-	10 % or	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C		
BOTTLES	S FILLED	PRESERV	ATIVE CODI	S A-NONE	В-	HNO3	C - H2SO4	D - NaOh	H E-HC	L F		
NUMBER	SIZE	TYPE	PRESERV	ATIVE FILT	ERED	NUMBER	R SIZE	TYPE	PRESERVATI	VE FILTERED		
2	40 mL	VOA	Е	□ Y	☑ N	1	125 mL	PLASTIC	В	VY N		
2	40 mL	VOA	А		☑ N	1	100 mL	PLASTIC	F	Y VN		
2	1 L	AMBER	А	□ Y	✓ N					□Y □N		
1	500mL	PLASTIC	Α		✓ N					YUN		
1	125 mL	PLASTIC	С	□ Y	☑ N		-			□ Y □ N		
SHIPPING METHOD: FED E- DATE SHIPPED: 8/18/11 AIRBILL NUMBER: 8649 1600 3470												
COC NUME		14	7	SIGNATURE:		Mart 1	Ma	DATE SIG		6/18/11		
I COO INCINIE	<b></b> 1 ∖.			C. C. W. (1 O. (L.		- NUV	1711			Y V V / (		

## **©TRC**

PROJECT NAME: LE Carpenter & Co.								PRE	PAŖEC	)		Y.		CHEC	KED
PROJECT NUMBER: 004048.0000.0000								SP/MA	DATE:	8	sli	BY:	5 n	1	DATE:9/6/1/
WELL DIAMETER: \$\frac{1}{2}2"															
PURGE		15,	/4		40	<u>:    </u> _ SL				DA TV: Jacon	TE: 8/18/1				
метно				PH:         6.60         SU         CONDUCTIVITY:         140         umhos/cm           ORP:         144         mV         DO:         0.00         mg/L											
DEPTH TO WATER: 482 T/ PVC TURBIDITY: 455 NTU															
101/													☐ VERY		
WELL VOLUME: 3.30 X LITERS GALLONS TEMPERATURE: 19.5% °C OTHER:															
VOLUME	REMOVED	GALLO	COLOR:												
COLOR: Brown, Oily Sheen ODOR: Made ste FILTRATE (0.45 um) VYES NO															
TURBIDITY FILTRATE COLOR: Clear FILTRATE ODOR:												R:			
□ NONE □ SLIGHT □ MODERATE □ VERY □ QC SAMPLE: □ MS/MSD □ DUP-															
DISPOSA	L METHOD	: GROU	IND DR	UM 🗸	OTHE	R		COMMEN	NTS: FE	? ;	<u> </u>	1	111:2	)SO	CO.:50
TIME PURGE PH CONDUCTIVITY ORP D.O. TURBIDITY TEMPERATURE WATER CUMULATIVE											CUMULATIVE PURGE VOLUME				
	(ML/MIN)	(SU)	(umhos/c	m)	(mV)		1	mg/L)	(NTU)			(°C)		(FEET)	(GAL OR(L)
17:00	400	651	1110		-18	]	1	·C5	404		19	1.29	V	5.12	INITIAL
17:14	400	6.51	1120		1		•	2.10	35.0	)	19,74			6 44	2
17:19	,	6.57	1150		i / i			9-00	135		14-81			7.48	4
17:24		6.59	1196		٠ . سوا			7-0c	117					8.68	
17.29			1192		1. 1			1-00	LIC	-	19.69		- 1	9-79	8
1,00			1 CV		171910		1.00	0 455		19:58			0 201		
									7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	-					
											·····				
[															
NO			EST IS CO	<b>IPLETE</b>	WHEN	1 3 SI	uco	CESSIVE F	READING	S AR	RE WI	THIN T	HE FO	LLOWING	LIMITS:
pH: +/- 0.1 COND.: +/- (>1000), ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10 % or = 10 TEMP.: +/- 0.5°C</td															
BOTTLE	SFILLED	PRESERV	ATIVE COD	<u>ES</u> A-	NONE		В-	HNO3	C - H28	504	D-	NaOF	1	E - HCL	F
NUMBER	SIZE	TYPE	PRESERV	RVATIVE F		TERED		NUMBER	SIZE		TY	TYPE PRE		ERVATIV	E FILTERED
2	40 mL	VOA	Е		YVN		1	125 m	ıL	PLASTIC		В		VY N	
2	40 mL	VOA	Α		□ Y	✓ N		1	100 m	L	PLASTIC		F		□Y ✓N
2	1 L	AMBER	Α		□ Y	V	N								YN
1	500mL	PLASTIC	А		□ Y	V	N								YON
1	125 mL	PLASTIC	С		□ Y	<u></u>	N						***************************************		Y
SHIPPING METHOD: Fed Ex DATE SHIPPED: 4/14/11 AIRBILL NUMBER: 869 1600 3474															
COC NUMBER: Na SIGNATURE: Nath DATE SIGNED: 8/156/4															
DEVICED.								with	gen			- 516	U.		150/11

Q	T	R	C
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PROJEC	T NAME:	LE C	arpenter &	Co.			PR	EPAI	RED	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		CHE	CKED		
PROJEC	T NUMBE	R: 0040	48.0000.00	000		BY:	SP/MA	D,	ATE: 🕏	Kli	BY:	5m	DATE:	9/6/	///
SAMPLE WELL MA		<b>1√-73</b> 5 □ PVC □ GW	□ss □ww	Ĵ∑ IR □ S\	ON [		TER: ANIZED S	STEEL	4" - :HATE	6" [	OTHER OTHER	<b>R</b>			
	RGING						In the Cartesian	AMP	3 10 2 2 3 1 3 2 3 1 3 3 1 3 3 1 3 3 3 3 3 3	TIME:			ATE O		
PURGING TIME: 0832 DATE: 8/16/11  PURGE DUMP Georgian  METHOD: BAILER					6/11_ - -	PH: ORP:	6.6 -8	4			VITY: <u>13</u>		umhc		
DEPTH TO WATER: 5.07 T/ PVC TURBIDITY: 59.8 NTU															
	о воттом		_ T/ PVC				☐ NO	NE		JIGHT	☐ MC	DERATE		VER	1
	LUME: 3.0	<u> </u>	LITER:		GALL		TEMPE				°С ОТ	HER:			
			LITER		GALL		COLO	R:	Yellow	15M	OD	OR: _	Sligh	+	
COLOR:	<u> </u>	1150	+INT		Stro	Chica	FILTRA	TE (0.	45 um)	✓ YES		NO			
	\ <del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>		RBIDITY				FILTRA			cllows	h FIL	TRATE ODG	DR:		
NONE		IGHT [	MODERA1			ERY	QC SA			S/MSD		DUP-			
DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS: Fe'18 Alk. 300 (0.50)							)								
TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTI		ORP (mV)		D.O. ( mg/L)		BIDITY ITU)		RATURE	WATER LEVEL (FEET)	PURGE	JLATI VOLI L OR I	UME
9:32	400	6.52	1300		₹ }ι		3,31	70		19	10	563		ITIAL	-
8:37	400	6.76	(330	,	-86	1	3.00		<b>7</b>	19,4	<del>,                                      </del>	7.25	/	2	
8:42	400	6.65	1330		- 7u		).OS	.75 59		18.1		8.99	ز		
8:47	400	6.64	1330		~84	i	,00		1 ) 3 / S	15	1,	9.87		2 2	-
<u> </u>		10.01			. 0.1			<u>S</u>	1/3	1,1	<i>)</i>			Ø	
										-		1.			
											· · ·				
										-					
										i					
<b>NO</b> pH: +/-		LIZATION T	TEST IS COI 5 (<1000), 20 (>1000)	MPLETE RP: +/-			CESSIVE						G LIMITS		i°C
BOTTLE	SFILLED	PRESERV	ATIVE COD	ES A-	NONE	В	- HNO3	C -	H2SO4	D-1	laOH	E - HCL	. F		
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILT	ERED	NUMBE	R	SIZE	TYPE	PR	ESERVATIV	Æ FIL	TERE	:D
2	40 mL	VOA	Е		□ Y	✓ N	1	1	25 mL	PLAST	IC .	В	V		N
2	40 mL	VOA	Α		□ Y	N	1	1	00 mL	PLAST	IC	F		· 🔽	N
2	1 L	AMBER	Α		□ Y	✓ N							Y	,	N
1	500mL	PLASTIC	А		Y	✓ N							□ Y	, <sub>□</sub>	N
1	125 mL	PLASTIC	С		□ Y	✓ N							□ Y		N
SHIPPING	METHOD:	FEDE	4	DATE S	SHIPPE	=====================================	9/19/	Ί,		AIRB	ILL NUME	BER: %	89 (GC	<u></u> ≥ 3	424
COC NUME	BER:	AN		SIGNA	TURE:		Must 1-		1	DATE	SIGNED		8/14/		7
<b>PEVISED</b>	06/2011			<del>, .</del>			V						V V V/	V	

REVISED 06/2011

PROJECT NAME: LE Carpenter & Co.					PF	REPARED			CHE	CKED		
PROJECT NUMBER: 004048.0000.0000					BY:	SP/MA	DATE: 8	16/n	BY:	5M	DATE: 9/6/11	
WELL DIAMETER: Z' 4" 6" OTHER  WELL MATERIAL: PVC SS IRON GALVANIZED STEEL OTHER												
SAMPLE	TYPE:	∫ GW	ww	s		] DI		LEACHATE		OTHER		
PURGING TIME: 9:07 DATE: 8/16/ PURGE PUMP Geophics METHOD: BAILER					//1	PH: ORP:	Cia			VITY: 97	DATE: 6/18/1/ 2 umhos/cm g/L	
<del></del>	O WATER						TURB		<u>≻`</u> Ž NTU			
<del></del>		N: 10.0			1		No	NE \ S	LIGHT	мс	DERATE	☐ VERY
WELL VC		<u> 3.25</u>			GALLO			<i>C</i> ;	9.59.	С ОТ	HER:	
<u> </u>	REMOVE	/	LITER		GALLO		COLO			OD	OR:	Strong
COLOR:		Clear		ODOF	ESING	nt		ATE (0.45 um)			NO	
M NONE		TUI TGHT	RBIDITY ] MODERAT		☐ VE	DV		TE COLOR: _(	Clear	FIL	TRATE OD	OR:
<del>/</del>									S/MSD		DUP-	
DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS: Fe: 4.5 (0): 40 AK 230												
TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTI (umhos/c		ORP (mV)		-D.O. ( mg/L)	TURBIDITY (NTU)	TEMPER		WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR (L)
9:00	400	6.59	920	)	773	,	3.81	55.7		).68	5.28	INITIAL
91.07	400	0.65	1020	)	-90		0.00	23.)		34	6-86	2
9-12	400	6.64	(000		~ 6°8		2.00	8.0		,20	7.02	i i
9:28	400	6.49	980	-	118		2,00	V	P.Ca	(11	-	6
9:23		6-601	940		104		9.00	14.8	10	7 <del>[</del>	1.84	Ŷ
9:24	400	6.58	970	-	Or a		9.0	26.3	19,5	68 G	9.56	10
	·	J*										
pH: +/-	0.1	COND.: +/-	6 (<1000), 20 (>1000) O	RP: +/-	NA	D.C	).: +/- <b>0.3</b>	E <b>READINGS</b> A		IN THE F		G LIMITS: FEMP.: +/- 0.5°C
JARO Bahasantsian			ATIVE COD				HNO3	C - H2SO4	D - Na	aOH	E - HCI	_ F
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTE		NUMBE	R SIZE	TYPE	PRE	ESERVATI\	/E FILTERED
2	40 mL	VOA	E		=	✓ N	1	125 mL	PLASTIC	C	В	✓ Y □ N
2	40 mL	VOA	A			✓ N	1	100 mL	PLASTIC	C	F	☐ Y ☑ N
, 2	1 L	AMBER	A			☑ N						□ Y □ N
1	500mL	PLASTIC	Α			✓ N						□ Y □ N
1	125 mL	PLASTIC	<u>C</u>		□ Y [	✓ N						□ Y □ N
SHIPPING	METHOD:	FED E	<i></i>	DATE	SHIPPE	D:	8/18	211	AIRBIL	L NUMB	BER: 4/6	89 1600 3424
OC NUME		M		SIGNA	TURE:		Moto	LAb	DATE	SIGNED		16/11

C	T	R	C
1000			

PROJECT NAME: LE C	arpenter & Co.		PREI	PARED		CHE(	CKED
PROJECT NUMBER: 0040	48.0000.0000	BY:	SP/MA	DATE: 8	15 11 BY:	SM	DATE: 9/6/11
SAMPLEID: MU-35	۷۰۰۰	WELL DIAMET	ER: 2'	'	6" OT	HER	
WELL MATERIAL: PVC		RON GALVA	NIZED ST	EEL	ОТ	HER	
SAMPLE TYPE: GW	□ww □s	SW 🗌 DI		ACHATE	ОТ	HER	
PURGING TIME: V		0/ 19/	SAI	VPLE,	TIME: 6	25/ D	ATE: \$1/4/1
PURGE PUMP METHOD: BAILER	Geopano	<u> </u>				ICTIVITY: 100	umhos/cm
DEPTH TO WATER: 426	T/ PVC		TURBIDI		NTU		g/ L
DEPTH TO BOTTOM: LO	(T/ PVC		NONE	X SLI	 GHT	MODERATE	☐ VERY
WELL VOLUME: 3.55	_∑ LITERS [	GALLONS	TEMPERA	ATURE: 1	1.29°C	OTHER:	
VOLUME REMOVED:	LITERS	GALLONS	COLOR:	Clock		ODOR:	Strong
COLOR: Clear	Oily StenoDOI	R: Moderale	FILTRATE	(0.45 um)		□ NO	
TUF	RBIDITY		FILTRATE	COLOR: C	lew	FILTRATE ODG	DR:
NONE SLIGHT	MODERATE	VERY	QC SAME		/MSD	DUP-	
DISPOSAL METHOD. GROU	IND 🗌 DRUM 🔽	OTHER	COMMEN	ITS: Fe	>20 A	1k- 180	(0,150
TIME PURGE PH	CONDUCTIVITY	ORP	TANAPITAN	URBIDITY	TEMPERATI	JRE WATER	CUMULATIVE
(ML/MIN) (SU)	(umhos/cm)	(mV)(	mg/L)	(NTU)	(°C)	LEVEL (FEET)	PURGE VOLUME (GAL OR L)
17:45 400 660	1030	- L	-37	16.2	19.44	5.15	INITIAL
7:50 400 6.61	1030	-110 O	00 S	51.2	14.48	6.52	2
17:35 400 6:58	1070	- it's		62.1	14.31	7-89	$\ddot{c}$
14.00 400 6.60	1060	-47	.	66-1	14.29	9.11	6
14,0	1000	Compact ()		261	19.09	7-11	
NOTE: STABILIZATION T		E WHEN 3 SUCC	ESSIVE R	EADINGS A	RE WITHIN T	HE FOLLOWIN	G LIMITS:
pH: +/- <b>0.1</b> COND.: +/-	6 (<1000), 20 (>1000) ORP: +/-	- <b>NA</b> D.O.:	+/- 0.3	TURB: +/-	10 % or	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTLES FILLED PRESERV	ATIVE CODES A	- NONE B -	HNO3	C - H2SO4	D - NaOh	I E - HCI	_ F
NUMBER SIZE TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIV	/E FILTERED
2 40 mL VOA	E	□ Y ☑ N	1	125 mL	PLASTIC	В	VY N
2 40 mL VOA	Α	YVN	1	100 mL	PLASTIC	F	□Y ☑N
2 1 L AMBER	Α	□ Y ✓ N					□ Y □ N
1 500mL PLASTIC	Α	□ Y ✓ N					□ Y □ N
1 125 mL PLASTIC	С	☐ Y ✓ N					☐ Y ☐ N
SHIPPING METHOD: FEO E	DATE	SHIPPED:	118/1	١,	AIRBILL N	IUMBER: 66	89 1600 3424
COC NUMBER:		ATURE:	Massel	41_	DATE SIG		118/11

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PROJECT NAME: LE Carpenter & Co.	PREPARED CHECKED
PROJECT NUMBER: 004048.0000.0000 BY:	SP/MA DATE: 8/11/11 BY: 5m DATE: 9/6/11
SAMPLE ID: / WELL DIAME WELL MATERIAL: □ PVC □ SS ☑ IRON □ GALV	ETER: 2"
SAMPLE TYPE: GW WW SW DI	ANIZED STEEL OTHER
PURGING TIME: (C'GC) DATE: 9/17/11	SAMPLE TIME: 12'58 DATE: 8/16/11
PURGE PUMP (JODINA)	PH: 6.83 SU CONDUCTIVITY: 1030 umhos/cm
METHOD: BAILER	ORP:65 mV DO: 0.32 mg/L
DEPTH TO WATER: \$.55 T/ PVC	TURBIDITY: 144 NTU
DEPTH TO BOTTOM: 17.92 T/ PVC	□ NONE ☑ SLIGHT □ MODERATE □ VERY
WELL VOLUME: 7.83 LITERS GALLONS	TEMPERATURE:°C OTHER:
VOLUME REMOVED: LITERS GALLONS	COLOR: Yellowigh Tint ODOR: Maderate
COLOR: <u>C.ler</u> ODOR: <u>No</u>	FILTRATE (0.45 um)  YES  NO
TURBIDITY	FILTRATE COLOR: FILTRATE ODOR:
NONE SIGHT MODERATE VERY	QC SAMPLE: MS/MSD DUP-
DISPOSAL METHOD GROUND DRUM OTHER	COMMENTS: Fe: 0.6 Alk: 160 Cg: 18
TIME PURGE PH CONDUCTIVITY ORP	D.O. TURBIDITY TEMPERATURE WATER CUMULATIVE LEVEL PURGE VOLUME
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	(mg/L) (NTU) (°C) (FEET) (GAL OX L)
80/400 632 1050 -50 811 4100 639 1030 -50	537 144 1742 850 INITIAL
1171162660	255 153 16.90 9.81 2
417400 698 1060 66	2 28 408 16 99 11.32 4
9.22 400 693 1030 -65 1	1.32. 144 1666 12.40 6
well on dry at 4: Dy	
NOTE: STABILIZATION TEST AS COMPLETE WHEN 3 SUC	CESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
5 (<1000) 20	: +/- 0.3 TURB: +/- 10 % or = 10 TEMP.: +/- 0.5°C</td
BOTTLES FILLED PRESERVATIVE CODES A - NONE B	
	HNO3 C-H2SO4 D-NaOH E-HCL F
	NUMBER SIZE TYPE PRESERVATIVE FILTERED
	1 125 mL PLASTIC B VY N
2 40 mL VOA A	1 100 mL PLASTIC F Y N
2 1 L AMBER A Y V N	
1 500mL PLASTIC A Y N	Y
1 125 mL PLASTIC C Y N	□ Y □ N
SHIPPING METHOD: FED E	5/46/11 // AIRBILL NUMBER: 8689 1600 3424
COC NUMBER: NA SIGNATURE:	1/4/



REVISED 06/2011

PROJECT NAME	: LE Ca	rpenter & Co.	,		PREP.	ARED		· · · · · · · · · · · · · · · · · · ·	HECKED
PROJECT NUMB	ER: 00404	8.0000.0000		BY:	SP/MA	DATE: 8/18	du B	Y: SM	DATE: 9/6/11
SAMPLE ID: D	RC-07		WELL	DIAMET	ER: 2"	4"	6" 🗸 (	OTHER NA	
WELL MATERIAL:	PVC	ss [	] IRON [	GALVAI	NIZED STE	EL	V (	OTHER NA	
SAMPLE TYPE:	☐ GW	□ww □	]sw 🗌	DI	LEA	CHATE		OTHER	
PURGING	TIME:		ATE:		SAM	PLE	TIME: C	0830	DATE: 8/8/U
PURGE	PUMP				PH:	SI	U CON	DUCTIVITY: _	umhos/cm
METHOD:	BAILER				ORP:	m	V DO:		_ mg/L
DEPTH TO WATE	R:	T/ PVC			TURBIDIT	Y:	NTU		
DEPTH TO BOTTO	OM:	T/ PVC			NONE	SLI	GHT	☐ MODERA	TE VERY
WELL VOLUME:		LITERS	GALLO	NS	TEMPERA	TURE:	°	OTHER:	
VOLUME REMOVE	ED:	LITERS	GALLO	ONS	COLOR:		/	ODOR:	
COLOR:	<u> </u>		DOR:		FILTRATE	(0.45 um)	YES	✓ NO	
	TUR	BIDITY			FILTRATE (	OLOR:		FILTRATI	E ODOR:
MONE :	SLIGHT [	MODERATE	U VE	RY	QC SAMP	LE: MS	/MSD	DUP	-
DISPOSAL METHO	OD: GROU	ND DRUM	/ OTHE	٦	COMMEN.	TS:			
TIME PURG RATE (ML/MI	PH	CONDUCTIVIT (umhos/cm)	Y ORP		D.O. T	URBIDITY (NTU)	, TEMPER	ATURE   LE	TER CUMULATIVE VEL PURGE VOLUME EET) (GAL OR L) INITIAL
				9					
NOTE: STA	ABILIZATION T		PLETE WHEN P: +/- 10 %			EADINGS A		IIN THE FOLL or = 5</td <td>.OWING LIMITS: TEMP.: +/- 0.5°C</td>	.OWING LIMITS: TEMP.: +/- 0.5°C
BOTTLES FILLE	PRESERV	ATIVE CODES	A - NONE	B -	HNO3	C - H2SO4	D - N	laOH E	E-HCL F-
NUMBER SIZE		PRESERVA		ERED	NUMBER	SIZE	TYPE		RVATIVE FILTERED
2 40 ml		E	Y	✓ N			,,,_	1.112021	TIETELES
2 40 IIII 2 1 L	AMBER								
	AIVIDER	A	LY	✓ N					LY LN
			Y	N					L Y L N
			Y	N N					L Y L N
			Y	□ N					☐ Y ☐ N
SHIPPING METHO	D: FEDE	آيد ا	DATE SHIPP	ED:	8/18/11		AIRB	ILL NUMBER:	889 1600 3474
COC NUMBER	A 04		SIGNATURE	Z	20	la :		SIGNED	Alshu

## **OTRC**

PROJECT NAME: LE Carpenter & Co.	PREPARED CHECKED
PROJECT NUMBER: 004048.0000.0000 BY:	SP/MA DATE:8/8/11 BY: 5 M DATE:9/6/11
SAMPLE ID: SW-D-5 WELL DIAMET	ER: 2" 4" 6" VOTHER NA
	NIZED STEEL
SAMPLE TYPE: GW WW SW DI	LEACHATE OTHER
PURGING TIME: DATE:	SAMPLE TIME: 0835 DATE: 8/18/11
PURGE PUMP	PH: SU CONDUCTIVITY: umhos/cm
METHOD: BAILER	ORP: mV DO: mg/L
DEPTH TO WATER: T/ PVC	TURBIDITY: NTU
DEPTH TO BOTTOM: T/ PVC	NONE SLIGHT MODERATE VERY
WELL VOLUME: LITERS GALLONS	TEMPERATURE:°C OTHER:
VOLUME REMOVED: LITERS GALLONS	COLOR: ODOR:
COLOR: ODOR:	FILTRATE (0.45 μm) YES V NO
TURBIDITY	FILTRATE COLOR: FILTRATE ODOR:
MODERATE VERY	OC SAMPLE: MS/MSD DUP-
DISPOSAL METHOD: GROUND DRUM OTHER	COMMENTS:
TIME PURGE PH CONDUCTIVITY ORP (ML/MIN) (SU) (umhos/cm) (mV) (	D.O. TURBIDITY TEMPERATURE WATER CUMULATIVE PURGE VOLUME ("C") (FEET) (GAL OR L)
	INITIAL
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUC	CESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
pH: +/- 10 % COND.: +/- 10 % ORP: +/- 10 % D.O.:	+/- 10 % TURB: +/- 10 % or = 5 TEMP.: +/- 0.5°C</td
BOTTLES FILLED PRESERVATIVE CODES A - NONE B -	HNO3 C - H2SO4 D - NaOH E - HCL F
NUMBER SIZE TYPE PRESERVATIVE FILTERED	NUMBER SIZE TYPE PRESERVATIVE FILTERED
2 40 mL VOA E Y N	□ Y □ N
2 1 L AMBER A Y N	□ Y □ N
□ Y □ N	□ Y □ N
□ Y □ N	☐ Y ☐ N
□ Y □ N	
SHIPPING METHOD: FROEX DATE SHIPPED:	AIRBILL NUMBER: 8669 1600 3424
COC NUMBER: $\mu$ SIGNATURE:	DATE SIGNED: 8/8/11
REVISED 06/2011	- Indiana - Altelia

CHECKED



LE Carpenter & Co.

## **WATER SAMPLE LOG**

PREPARED

PROJECT NUMBER: 004048.0000.0000 BY: SP/MA DATE: 8/8/11 BY: SM DATE: 9/6///							
SAMPLE ID: Swall   WELL DIAMETER: 2" 4" 6" VOTHER NA							
WELL MATERIAL: PVC SS IRON GALVANIZED STEEL OTHER NA							
SAMPLE TYPE: GW WW SW DI LEACHATE OTHER							
PURGING TIME: DATE: SAMPLE TIME: 0845 DATE: 8/18/1							
PURGE PUMP PH: SU CONDUCTIVITY: umhos/cm							
METHOD:         BAILER         ORP:         mV         DO:         mg/L							
DEPTH TO WATER: T/ PVC TURBIDITY: NTU							
DEPTH TO BOTTOM:T/ PVE							
WELL VOLUME: LITERS GALLONS TEMPERATURE: °C OTHER:							
VOLUME REMOVED: LITERS GALLONS COLOR: ODOR:							
COLOR: ODOR: FILTRATE (0.45 Jm) YES V NO							
TURBIDITY FILTRATE COLOR: FILTRATE ODOR:							
MONE SLIGHT MODERATE VERY OF SAMPLE: MS/MSD DUP-							
DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS:							
TIME PURGE PH CONDUCTIVITY ORP D.O. TURBIDITY TEMPERATURE WATER CUMULATIVE PURGE VOLUME (ML/MIN) (SU) (umhos/cm) (mV) (mg/L) (NTU) (°C) (FEET) (GAL OR L)							
(ML/MIN) (SU) (umhos/cm)   (mV) (mg/L) (NTU) (°C) (FEET) (GAL OR L)   INITIAL							
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:							
pH: +/- 10 % COND.: +/- 10 % ORP: +/- 10 % D.O.: +/- 10 % TURB: +/- 10 % or = 5 TEMP.: +/- 0.5°C</td							
BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F							
NUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE PRESERVATIVE FILTERED							
2 40 mL VOA E							
2 1 L AMBER A							
SHIPPING METHOD: FEDEX DATE SHIPPED: 8/18/11 AIRBILL NUMBER: 8689 600 3474							
COC NUMBER: NA SIGNATURE: 5 Parlibria DATE SIGNED: 8/18/1/							
REVISED 06/2011							

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REVISED 06/2011

## **WATER SAMPLE LOG**

PROJECT NAME: LE Carpe	enter & Co.		PREP	ARED		CHEC	KED
PROJECT NUMBER: 004048.0	000.0000	BY:	SP/MA	DATE: SISI	BY:	5M	DATE: 9/6///
SAMPLE ID: がルピーフ WELL MATERIAL: PVC	WELL		ER: 2"	4" 6"	✓ ОТНІ ✓ ОТНІ	IVA	
SAMPLE TYPE: GW	]ww ☑sw [	] DI	LEA	ACHATE	ОТН		
PURGING TIME:	DATE:		SAN	/PLE TII	ME: 089	55 D	ATE: 8/18/11
PURGE PUMP		_/	PH:			TIVITY:	
BAILER _			ORP:	mV	DO:	m	g/L
	PVC		TURBIDIT	Y:	NTU		
DEPTH TO BOTTOM: T/	PVC		NONE	SLIGH	т 🔲	MODERATE	VERY
WELL VOLUME:	LITERS GALLO		TEMPERA	TURE:	°c/	OTHER: _	
VOLUME REMOVED:	LITERS GALLO	ONS	COLOR:			ODOR: _	
COLOR:	ODOR:		FILTRATE	(0.45 um) 🔲	YES	✓ NO	
TURBID			FILTRATE			FILTRATE OD	OR:
	DDERATE VE	ERY	QE SAMP	LE: MS/MS	D	DUP-	
DISPOSAL METHOD: GROUND	DRUM OTHE	R	COMMEN	TS:			
NAIE   NAIE	ONDUCTIVITY ORP umhos/cm) (mV)		).O., TI		EMPERATUR	RE WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
							INITIAL
				***			
The state of the s					******		
						-	
NOTE: STABILIZATION TES	T IS COMPLETE WHEI	N 3 SUCC	ESSIVE R	EADINGS ARE	WITHIN TI	HE FOLLOWI	JG I IMITS:
pH: +/- <b>10</b> % COND.: +/- <b>10</b>						= 5</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTLES FILLED PRESERVATI	VE CODES A - NONE	B - I	HNO3	C - H2SO4	D - NaOH	E - HC	CL F
NUMBER SIZE TYPE PI	RESERVATIVE FILT	ERED	NUMBER	SIZE	TYPE	PRESERVAT	IVE FILTERED
2 40 mL VOA	E Y	✓ N					□ Y □ N
2 1 L AMBER	A 🗆 Y	✓ N				100	Y N
	□ Y	□ N					□Y □N
	Y	□N					
	Y	□ N					YN
SHIPPING METHOD: FEOEL	DATE SHIPP		ાશી !		AIDDULL	LIMPER EL	
			17 1				19 1606 3424 Stroly
COC NUMBER: NO	SIGNATURE:	5	1 auch	<u>~`</u>	DATE SIG	NED: 8	SIKILI

O	T	RC	
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PROJECT NAME: LE Carpenter & Co.		PREP	ARED		CH	HECKED	
PROJECT NUMBER: 004048.0000.0000	BY:	<b>Э</b> /ма	DATE: 8/08	z/u B	1: 5M	DATE:	9/6/1/
SAMPLE ID: 56-R-3 WELL I	DIAMETE	R: 2"	4"	6" 🗸 C		——————————————————————————————————————	70///
	GALVAN	IZED STE			OTHER NA		
	DI		ACHATE		OTHER		
PURGING TIME: DATE:	12	SAN	PIE	TIME: O	910	DATE: 8	ıslu
PURGE PUMP		PH:	SL	CON	DUCTIVITY: _		umhos/cm
METHOD: BAILER	(	ORP:	m\	/ DO:		mg/L	
DEPTH TO WATER: T/ PVC	-	TURBIDIT	Y:	NTU			
DEPTH TO BOTTOM: T/ PVE		NONE	SLIC	HT [	MODERAT	re 🗌	VERY
WELL VOLUME: LITERS GALLO	NS T	EMPERA	TURE:	°9	OTHER:		
VOLUME REMOVED: LITERS GALLO	NS (	COLOR:			ODOR:		
COLOR: ODOR:	F	ILTRATE	(0.45 um) [	YES	✓ NO		
TURBIDITY	F	ILTRATE(	OLOR:		_ FILTRATE	ODOR:	
☐MONE ☐ SLIGHT ☐ MODERATE ☐ VEF		QE SAMP		MSD	DUP-		
DISPOSAL METHOD: GROUND DRUM OTHER		COMMEN	TS:				
TIME PURGE PH CONDUCTIVITY ORP	- L	.о. Т	URBIDITY	TEMPERA	ATURE   WAT	ER CUMI	JLATIVE
RATE (ML/MIN) (SU) (umhos/cm) (mV)	* 1 Page 1				LEV	EL PURGE	VOLUME
(IIIV)		ig/L)	(NTU)	<b>)</b> "C	) (PEI		⊒OR L) ITIAL
						- 114	IIIAL
							***
				Market 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
							1-71
	-						
NOTE: STABILIZATION TEST IS COMPLETE WHEN	3 SUCCE	ESSIVE R	EADINGS AF	RE WITHI	N THE FOLLO	WING LIMIT	S:
pH: +/- 10 % COND.: +/- 10 % ORP: +/- 10 %	D.O.: +	/- 10 %	TURB: +/- 1	<b>0</b> % c	or = <b 5	TEMP.:	+/- 0.5°C
BOTTLES FILLED PRESERVATIVE CODES A - NONE	В-Н	INO3	C - H2SO4	D - Na	OH E	- HCL F-	
NUMBER SIZE TYPE PRESERVATIVE FILTE	RED N	NUMBER	SIZE	TYPE	PRESER\	VATIVE FI	LTERED
2 40 mL VOA E Y	✓ N						YN
	<b>ブ</b> N						Y
	N						Y N
		l. J.				-turt	7 2684 1045 3,
		1814			L NUMBER:		<b>*</b>
COC NUMBER: SIGNATURE: REVISED 06/2011	<u>5</u>	المواسية	<u> </u>	DATE	SIGNED:	<u> 41811/</u>	

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DATE SIGNED:



COC NUMBER:

REVISED 06/2011

MA

SIGNATURE:

PROJECT NAME: LE Carpenter & Co.	PREPARED CHECKED
PROJECT NUMBER: 004048.0000.0000 BY:	SP/MA DATE: SISILI BY: 5M DATE: 9/6/1/
	TER: 2" 4" 6" OTHER NA  ANIZED STEEL OTHER NA  LEACHATE OTHER
PURGING TIME: DATE:	SAMPLE TIME: 0920 DATE:8/18/11
PURGE PUMP BAILER	PH:         SU         CONDUCTIVITY:         umhos/em           ORP:         mV         DO:         mg/L
DEPTH TO WATER: T/ PVC	TURBIDITY: NTU
DEPTH TO BOTTOM: T/ PVC	□ NONE □ SLIGHT □ MODERATE □ VERY
WELL VOLUME: LITERS GALLONS	TEMPERATURE:°C OTHER:
VOLUME REMOVED: LITERS GALLONS	COLOR:
COLOR: ODOR:	FILTRATE (0.45 Jum) YES V NO
TURBIDITY	FILTRATE COLOR: FILTRATE ODOR:
☐ MODERATE ☐ VERY  DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☐ OTHER	OC SAMPLE: MS/MSD DUP-
	COMMENTS:
TIME PURGE RATE PH CONDUCTIVITY ORP (ML/MIN) (SU) (umhos/cm) (mV)	D.O. TURBIDITY TEMPERATURE WATER LEVEL PURGE VOLUME (mg/L) (NTU) (°C) (FEET) (GAL OR L) INITIAL
	TWITE THE TENT OF
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SU	CCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
pH: +/- 10 % COND.: +/- 10 % ORP: +/- 10 % D.C	.: +/- 10 % TURB: +/- 10 % or = 5 TEMP.: +/- 0.5°C</td
BOTTLES FILLED PRESERVATIVE CODES A - NONE B	- HNO3 C - H2SO4 D - NaOH E - HCL F
NUMBER SIZE TYPE PRESERVATIVE FILTERED	NUMBER SIZE TYPE PRESERVATIVE FILTERED
2 40 mL VOA E Y V N	
2 1 L AMBER A Y V N	☐ Y ☐ N
□ Y □ N	
□ Y □ N	□ Y □ N
□ Y □ N	□ Y □ N
SHIPPING METHOD: FEOEX DATE SHIPPED:	AIRBILL NUMBER: \$689 1600 3424



PROJECT NAME: LE Carpenter & Co.		PREP	ARED		CH	ECKED
PROJECT NUMBER: 004048.0000.0000	BY:	SP/MA	DATE: 8	ofly BY:	5m	DATE: <b>9/6///</b>
SAMPLE ID: 56-D-4 WELL C	IAMET	ER: 2"	4"	6" 🗸 OTH	ER NA	
	GALVAI	NIZED STE	EL	✓ отн		
SAMPLE TYPE: GW WW SW	DI	LE/	ACHATE	□ отн		
PURGING TIME: DATE:		SAN	IPLE	TIME: 094	(0	DATE: 8/8/1/
PURGE PUMP		PH:	SI	CONDUC	CTIVITY:	umhos/cm
METHOD: BAILER		ORP:	m'	V DO:		mg/L
DEPTH TO WATER: T/ PVC		TURBIDIT	Y:			
DEPTH TO BOTTOM: T/ PVC		NONE	SLIC	GHT	MODERATI	E VERY
WELL VOLUME: LITERS GALLO		TEMPERA	TURE:	°\$_	OTHER:	
VOLUME REMOVED: LITERS GALLO		COLOR:			ODOR:	
COLOR: ODOR:			(0.45 um)	YES	✓ NO	
TURBIDITY  NONE SLIGHT MODERATE VEF		FILTRATE			FILTRATE (	
			LE: MS/	MSD	DUP-	03
	STATE OF THE STATE	COMMEN	15:	Sellugination (Second Feet) and analysis		TESTAS EVIDE ENTROCESHING COUNTY OF THE COUN
TIME PURGE PH CONDUCTIVITY ORP		D.O. Т	URBIDITY	TEMPERATU	RE WATE	
(ML/MIN) (SU) (umhos/cm) (mV)	(	mg/L)	(NTU)	(°C)	(FEE	
						INITIAL
		0.000000				
				····		
	_					
NOTE: STABILIZATION TEST IS COMPLETE WHEN	3 SUC	CESSIVE R	EADINGS A	RE WITHIN T	HE FOLLO	WING LIMITS:
pH: +/- 10 % COND.: +/- 10 % ORP: +/- 10 %	D.O.:	+/- 10 %	TURB: +/-	<b>10</b> % or	= 5</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTLES FILLED PRESERVATIVE CODES A - NONE	В-	HNO3	C - H2SO4	D - NaOh	f E-	HCL F
NUMBER SIZE TYPE PRESERVATIVE FILTE	RED	NUMBER	SIZE	TYPE	PRESERV	ATIVE FILTERED
9 2 40 mL VOA E □ Y	✓ N					□ Y □ N
1 L AMBER A Y	✓ N					□ Y □ N
□ Y	□N					☐ Y ☐ N
	N			· <u></u>		□Y □N
Y	_ N					UY UN
SHIPPING METHOD: FEOEX DATE SHIPPE	D: \$	distri		AIRBILI	NUMBER: 🕏	889 1600 3424
COC NUMBER: AVA SIGNATURE:	=======================================	Pauli	<u> </u>	DATE SIG		8/18/11
REVISED 06/2011	<u> </u>	1 am	7	DI CIL OIC		0[10[1]



COC NUMBER:

REVISED 06/2011

### **WATER SAMPLE LOG**

PROJECT NAME: LE Carpenter & Co.	PREPARED . CHECKED
PROJECT NUMBER: 004048.0000.0000 BY:	SP/MA DATE: 8/8/11 BY: SM DATE: 9/6/11
SAMPLE ID: 50 - R-6 WELL DIAME	TER: 2" 4" 6" V OTHER NA
WELL MATERIAL: PVC SS IRON GALV.	ANIZED STEEL
SAMPLE TYPE: GW WW SW DI	LEACHATE OTHER
PURGING TIME: DATE:	SAMPLE TIME: (000 DATE: F/(5/1)
PURGE PUMP	PH: SU CONDUCTIVITY: umhos/cm
METHOD: BAILER	ORP: mV DO: mg/L
DEPTH TO WATER: T/ PVC	TURBIDITY: NTU
DEPTH TO BOTTOM: T/ PVE	□ NONE □ SLIGHT □ MODERATE □ VERY
WELL VOLUME: LITERS GALLONS	TEMPERATURE:°C OTHER:
VOLUME REMOVED: LITERS GALLONS	COLOR: ODOR:
COLOR: ODOR:	FILTRATE (0.45 μm) YES V NO
TURBIDITY	FILTRATE COLOR: FILTRATE ODOR:
☑MONE ☐ SLIGHT ☐ MODERATE ☐ VERY	QE SAMPLE: MS/MSD DUP-
DISPOSAL METHOD: GROUND DRUM OTHER	COMMENTS:
TIME PURGE BY CONSTRUENCE OFF	DO TURRIDATA TEMPERATURE WATER CUMULATIVE
RATE PH CONDUCTIVITY ORP	D.O. TURBIDITY TEMPERATURE LEVEL PURGE VOLUME (mg/L) (NTU) (°C) (FEET) (GAL OR L)
	INITIAL
NOTE 07-201	
	CCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
pH: +/- 10 % COND.: +/- 10 % ORP: +/- 10 % D.O.	: +/- 10 % TURB: +/- 10 % or = 5 TEMP.: +/- 0.5°C</td
BOTTLES FILLED PRESERVATIVE CODES A - NONE B	- HNO3 C - H2SO4 D - NaOH E - HCL F
NUMBER SIZE TYPE PRESERVATIVE FILTERED	NUMBER SIZE TYPE PRESERVATIVE FILTERED
2 40 mL VOA E	□ Y □ N
2 1 L AMBER A Y N	YN
□ Y □ N	☐ Y ☐ N
SHIPPING METHOD: FLOK DATE SHIPPED:	8/18/11 AIRBILL NUMBER: 8689 1600 3424

SIGNATURE:

DATE SIGNED:

8/18/11

DATE SIGNED:



COC NUMBER:

REVISED 06/2011

NA

SIGNATURE:

LE Carpenter & Co.	PREPARED CHECKED
PROJECT NUMBER: 004048.0000.0000 BY:	SP/MA DATE: SKILL BY: 5M DATE: 9/6/1/
SAMPLE ID: 50-D-3 WELL DIAME	TER: 2" 4" 6" OTHER NA
	ANIZED STEEL OTHER NA
SAMPLE TYPE: GW WW SW DI	LEACHATE OTHER
PURGING TIME: DATE:	SAMPLE TIME: 1020 DATE: 8/10/11
PURGE PUMP	PH: SU CONDUCTIVITY: umhos/cm
METHOD: BAILER	ORP: mV DO: mg/L
DEPTH TO WATER: T/ PVC	TURBIDITY: NTU
DEPTH TO BOTTOM: T/ PVC	□ NONE □ SLIGHT □ MODERATE □ VERY
WELL VOLUME: LITERS GALLONS	TEMPERATURE:°C OTHER:
VOLUME REMOVED: LITERS GALLONS	COLOR: ODOR:
COLOR: ODOR:	FILTRATE (0.45 μm) YES V NO
TURBIDITY	FILTRATE COLOR: FILTRATE ODOR:
☐NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	QE SAMPLE: MS/MSD DUP-
DISPOSAL METHOD: GROUND DRUM OTHER	COMMENTS:
TIMÉ PURGE PH CONDUCTIVITY ORP	D.O. TURBIDITY TEMPERATURE WATER CUMULATIVE
	(mg/L) (NTU) (°C) (FEET) (GAL OR L)
	INITIAL
NOTE OTABLE TABLE	
	CESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: : +/- 10 % TURB: +/- 10 % or = 5 TEMP.: +/- 0.5°C</td
BOTTLES FILLED PRESERVATIVE CODES A - NONE B	- HNO3 C - H2SO4 D - NaOH E - HCL F -
NUMBER SIZE TYPE PRESERVATIVE FILTERED	NUMBER SIZE TYPE PRESERVATIVE FILTERED
2 40 mL VOA E Y N	
2 1 L AMBER A Y N	
SHIPPING METHOD: FEDEX DATE SHIPPED:	SIXIII AIRBILI NUMBER: C/SS 1/4- 2/2/1

# **OTRC**

COC NUMBER:

REVISED 06/2011

## **WATER SAMPLE LOG**

PROJECT NAME: LE Carpenter &	Co.		PREI	PARED		CH	ECKED
PROJECT NUMBER: 004048.0000.00	00	BY:	SP/MA	DATE: SISTU	BY:	sm	DATE: <b>9/6///</b>
SAMPLE ID: 5W-D-Z	WELL D	DIAME	ΓER:	'	✓ OTH	IER NA	
WELL MATERIAL: PVC SS	☐ IRON ☐	GALVA	ANIZED ST	EEL	✓ OTH		
SAMPLE TYPE: GW WW	✓ sw 🗆	DI		ACHATE		11/	
PURGING TIME:	DATE:		SAI	MPLE Π	ME: 10	30	DATE: 8(18(1)
PURGE PUMP		/	PH:	SU	CONDUC	CTIVITY:	umhos/cm
BAILER			ORP:	mV	DO:		mg/L
DEPTH TO WATER: T/ PVC			TURBIDI	ГҮ:	NTU		
DEPTH TO BOTTOM: T/ PVC			NONE	SLIGH	т 🔲	MODERATI	E UERY
WELL VOLUME: LITERS			TEMPER/	ATURE:	°S⁄	OTHER:	
VOLUME REMOVED: LITERS	GALLOI	NS	COLOR:			ODOR:	
COLOR:	ODOR:		FILTRATE	(0.45 um) 🔲	YES	✓ NO	
TURBIDITY			FILTRATE	COLOR:		FILTRATE (	DDOR:
MONE SLIGHT MODERAT		RY	QE SAME	PLE: MS/MS	D	DUP-	
DISPOSAL METHOD: GROUND DR	UM 🗌 OTHER		COMMEN	ITS:			
TIME PURGE PH CONDUCTIN					emperatu (°C)	RE LEVE	L PURGE VOLUME
		-	-				
NOTE: STABILIZATION TEST IS COM							VING LIMITS:
	RP: +/- <b>10 %</b>	D.O.:	+/- 10 %	TURB: +/- 10 9	% or	= 5</td <td>TEMP.: +/- <b>0.5°C</b></td>	TEMP.: +/- <b>0.5°C</b>
BOTTLES FILLED PRESERVATIVE CODI	ES A - NONE	В-	HNO3	C - H2SO4	D - NaOH	E-	HCL F
NUMBER SIZE TYPE PRESERV	ATIVE FILTE	RED	NUMBER	SIZE	TYPE	PRESERVA	ATIVE FILTERED
2 40 mL VOA E	□ Y	√ N					□Y □N
2 1 L AMBER A	□ Y [	√ N					□ Y □ N
	Y [	] N			-	4	YN
	□ Y [	] N				10.	DY DN
	Y	N					TY N
SHIPPING METHOD: FLO EX	DATE SHIPPED		Alshi		AIRBILL N	UMBER: %	189 1660 3424

SIGNATURE:

DATE SIGNED:

# **OTRC**

COC NUMBER:

REVISED 06/2011

### **WATER SAMPLE LOG**

PROJEC	T NAME:	LE Ca	arpenter & (	Co.		PREF	PARED		CHE	CKED	
PROJEC	T NUMBEI	R: 00404	18.0000.000	00	BY:	SP/MA	DATE: 8 18	elli BY:	SM	DATE: 9/6/11	/
SAMPLE	10: 5ú	1-b-1		WELL	DIAMET	ER: 2"	4"	6"	HER NA		
WELL MA	TERIAL:	PVC	SS	☐ IRON ☐	GALVA	NIZED STE	EEL	✓ отн			
SAMPLE T	TYPE:	☐GW	□ww	✓ sw 🔲	DI	LE	ACHATE	отн	HER		
PUR	GING	TIME:		DATE:		SAN	MPLE :	TIME: (O	40	DATE: E(18/1)	
PURGE		PUMP			/	PH:	SL	CONDU	CTIVITY:	umhos/	ćm
METHO	D:	BAILER				ORP:	m\	/ DO:	r	ng/L	
DEPTH TO	O WATER:		_ T/ PVC			TURBIDIT	ΓΥ:	_ NTU			
DEPTH TO	О ВОТТОМ	·	_ T/ PVC			☐ NONE	SLIG	нт 🗌	MODERATE	☐ VERY	i
WELL VOL	LUME:		LITERS	GALLO	NS	TEMPERA	ATURE:	°S⁄	OTHER:		
VOLUME	REMOVED		LITERS	GALLO	NS	COLOR:		_	ODOR:		
COLOR:	_/			ODOR:		FILTRATE	(0.45 um)	YES	✓ NO		
			BIDITY			FILTRATE			FILTRATE O	DOR:	
NONE		GHT 📗	MODERATI	E VE	RY	QC SAMF	PLE: MS/N	MSD	DUP-		
DISPOSA	L METHOD	GROU	ND DRI	UM OTHER	t ———	COMMEN	ITS:				
TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIV			D.O. T	URBIDITY (NTU)	TEMPERATU	JRE WATER LEVEL (FEET)	PURGE VOLUM	ИΕ
										INITIAL	
											$\dashv$
100						~					
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		~~									
NO	TE: STABII	IZATION T	EST IS COM	IPLETE WHEN	3 SUC	CESSIVE R	EADINGS AR	E WITHIN 1	THE FOLLOW	ING LIMITS:	_
pH: +/-		COND.: +/-		RP: +/- <b>10 %</b>			TURB: +/- 1		= 5</td <td>TEMP.: +/- 0.5°</td> <td>C</td>	TEMP.: +/- 0.5°	C
BOTTLES	SEILLED	PRESERV	ATIVE CODI	ES A - NONE		HNO3	C - H2SO4	D - NaOl-		ICI F	$\neg$
NUMBER	SIZE	TYPE	PRESERV	<del></del>		NUMBER	SIZE SIZE	TYPE	PRESERVA		$\exists$
2	40 mL	VOA	E		√ N		I O'LL	111°L	FILSERVA		
2	1 L	AMBER	A		_						N
	, -	,		Y	✓ N						N
				Y	N					Y	N
				Y	N					YI	N
				_Y	N	1 1				YI	N
SHIPPING	METHOD:	FED!	£ <u>×</u>	DATE SHIPPE	D: -	ીલિય		AIRBILL N	NUMBER: &	689 1600 3421	9

SIGNATURE:

DATE SIGNED:

0	T	R	C
Actions.			

REVISED 06/2011

PROJECT NAME: LE Carpenter & Co.		PREPARED		CHE	CKED
PROJECT NUMBER: 004048.0000.0000	BY:	SP/MA DATE: 8	8 (1 BY:	SM	DATE: 9/6/1/
SAMPLE ID: PB-01 WE	ELL DIAMETI	ER: 2" 4"	6" 🛮 ОТН	IER M	
WELL MATERIAL: PVC SS IRON	GALVAI	NIZED STEEL	ОТН		
SAMPLE TYPE: GW WW SW	DI	LEACHATE	ОТН	IER	
PURGING TIME: DATE:	1	SAMPLE	TIME: //3/	/O D	ATE: 8/8/U
PURGE DUMP METHOD: DAVIDED	_	PH:SI	CONDUC	CTIVITY:	umbes/cm
BAILER		ORP: m\	/ DO:	m	g/L
DEPTH TO WATER: T/ PVC		TURBIDITY:	_ NTU		_
DEPTH TO BOTTOM: T/ PVC		NONE SLIC	SHT L	MODERATE	VERY
		TEMPERATURE:	°C	OTHER: _	
	LLONS	COLOR:		ODOR: _	
COLOR: ODOR:		FILTRATE (0.45 um)	✓ YES	☐ NO	
TURBIDITY  NONE SLIGHT MODERATE	The state of the s	FILTRATE COLOR:		FILTRATE OD	OR:
	VERY	QC SAMPLE: MS/I	MSD	DUP-	-
	HER	COMMENTS:	· · · · · · · · · · · · · · · · · · ·		
I NAIS I I I I I I I I I I I I I I I I I I	B COLOR	D.O. TURBIDITY	TEMPERATU	LEVEL	CUMULATIVE PURGE VOLUME
(III) (III) (CO) (UIIIIOSCIII)	(I	mg/L). (NTU)	(°C)	(FEET)	(GAL OR L) INITIAL
			***		INITIAL
Rinse Bunk on Su	· CA -	. /4 C			
HINSE ISLANT ON 30	e sary	one 2 coop.			
NOTE: STABILIZATION TEST IS COMPLETE VIII					<u> </u>
PH: +/- 0.1 COND.: +/- 6(<000),20 ORP: +/- NA					
2-22 Million 12-2 No. 1 (2007)		+/- <b>0.3</b> TURB: +/- <b>1</b>	0 % or	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTLES FILLED PRESERVATIVE CODES A - NO	NE B-I	HNO3 C - H2SO4	D - NaOH	E - HC	L F
NUMBER SIZE TYPE PRESERVATIVE F	ILTERED	NUMBER SIZE	TYPE	PRESERVATI	VE FILTERED
2 40 mL VOA E	Y V	1 125 mL	PLASTIC	В	VY N
2 40 mL VOA A	Y 🗸 N -	1 100 mL	PLASTIC	F	□Y ✓N
2 1 L AMBER A	YVN				YN
1 500mL PLASTIC A	YAN			N	TY N
1 125 ml PLASTIC C	<b>7</b> 7 N				Y N
SHIPPING METHOD: FEOEX DATE SHI		18/11	AIRBILL N	IUMBER: \$1	84 1660 3ver
COC NUMBER: AM SIGNATUR		Parlin	DATE SIG		Thele
REVISED 06/2011	<u></u>	1 woung	DATE SIG	MED: 2	11811



PROJECT NAME:	LE Ca	rpenter & C	o.		PREP	ARED		CH	ECKED
PROJECT NUMBE	R: 00404	8.0000.000	00	BY:	SP/MA	DATE:	EN BY:	5M	DATE: <b>9/6/1</b> /
SAMPLE ID: 12	3-0Z		WELL	DIAMET	ER: 2"	4"	6" ØTH	ier M)	
WELL MATERIAL:	PVC	SS	IRON [	GALVA	NIZED STE	EL	✓ OTH	IER 📶	
SAMPLE TYPE:	☐ GW	□ww	□ sw 👤	<b></b> DI	LE/	ACHATE	□ отн	IER	
PURGING	TIME:		DATE:		SAN	MPLE	TIME: /38	20	DATE: 8/18/11
PURGE	PUMP				PH:	S		CTIVITY:	umhos/cm
DEPTH TO WATER	BAILER	T/ PVC	-/-		ORP:		NTU		mg/L
DEPTH TO BOTTO		T/ PVC _	/	····	NONE			MODERATE	E
WELL VOLUME:		UTERS	GALL	ONS	TEMPERA			OTHER:	
VOLUME REMOVE	D:	LITERS	GALL	ONS	COLOR:			ODOR:	
COLOR:			ODOR:		FILTRATE	(0.45 um)	☑ YES	NO	
	TUR	BIDITY			FILTRATE	COLOR:		FILTRATE (	DDOR:
	_IGHT	MODERATE	<u></u> ∨ı	ERY	QC SAMP	PLE: 🗌 MS	/MSD	DUP-	
DISPOSAL METHO	D: GROU	ND 🗌 DRI	JM 🗸 OTHE	R	COMMEN	TS:			
TIME PURGE RATE (ML/MIN)	PH	CONDUCTIV	5 (4-4)		D.O. T	URBIDITY (NTU)	TEMPERATU (°C)	JRE LEVE	L PURGE VOLUME
	RINSE	Blown Env. S	e on Servec Mw-191	Ren.	10c 13	CADDER	Pung	2	
	-USE	D (N)	Mc -191	T 24	Anes		40-40-40-4		
			3			•			
								2-4	
	-								
NOTE: STAB	ILIZATION T	EST IS COM	IPLETE WHE	N 3 SUC	CESSIVE R	FADINGS A	RE WITHIN 1	THE FOLLO	VING LIMITS:
pH: +/- <b>0.1</b>	COND.: +/-		RP: +/- <b>NA</b>		+/- 0.3	TURB: +/-		= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTLES FILLED	PRESERV	ATIVE CODE	S A - NONE	Е В-	HNO3	C - H2SO4	D - NaOl	H E-	HCL F
NUMBER SIZE	TYPE	PRESERV	ATIVE FIL	TERED	NUMBER	SIZE	TYPE	PRESERV	ATIVE FILTERED
2 40 mL	VOA	Е	□ Y	☑ N	1	125 mL	PLASTIC	В	N
2 40 mL	VOA	А		✓ N	1	100 mL	PLASTIC	F	□Y ☑N
2 1 L	AMBER	А	□ Y	✓ N					□ Y □ N
1 500mL	PLASTIC	Α	□ Y	✓ N					□ Y □ N
1 125 mL	PLASTIC	С	Y	✓ N					YN
SHIPPING METHOD	FESE	2	DATE SHIPP	PED:	8/18/11		AIRBILL I	NUMBER: 5	1684 1600 3424
COC NUMBER:	_ LA		SIGNATURE	: <b>4</b>	5 Paul	hi	DATE SIG		8/18/11
REVISED 06/2011					, ,,,,	7			



PROJECT	NAME:	LE Car	penter & Co	-			PREP	ARED .		CH	ECKED
PROJECT	NUMBER	: 004048	3.0000.0000		<b>{</b>	BY:	SP/MA	DATE &//8	(( BY:	5M	DATE: <b>9/6/1/</b>
SAMPLE I WELL MATI SAMPLE TY	ERIAL:	-63	SS C	] IRO ] SW		GALVA	NIZED STE		6"	<u></u>	
PURC	SING	TIME:		DATE:			SAN	PLÉ	TIME: /33	30	DATE: 8/18/11
PURGE		PUMP			$\angle$		PH:	s	U CONDUC	CTIVITY:	umbes/cm
METHOD: BAILER					ORP:	m	V DO:		mg/l		
DEPTH TO WATER: T/ PVC			TURBIDIT		NTU						
DEPTH TO	<del></del>		T/PVC		04110		NONE			MODERAT	E VERY
WELL VOL		$-\!\!\!/-$	LITERS		GALLO		TEMPERA	TURE:	°C	OTHER:	
VOLUME F	REMOVED:		LITERS		GALLO	NS	COLOR: FILTRATE	(0.45)		ODOR:	
COLOR:	/			DOR:		<u> </u>			✓ YES		0000
NONE	☐ SLI		BIDITY MODERATE		VEF	RÝ	QC SAMP		/MSD	FILTRATE  DUP-	ODOR:
	. METHOD:			v 🗸	OTHER		COMMEN				
TIME*	PURGE- RATE (ML/MIN)	PH (SU)	CONDUCTIVIT		ORP (mV)		D,O. T	URBIDITY (NTU)	TEMPERATU	RE WAT	EL PURGE VOLUME
	Control of the Contro		Control of the State of the Sta	Sertup Deller (Cons	ALL P	30000 C					INITIAL
	R	use (s	conk-	. ,	سرح	Tel	14 61	ande.			
	, .	<b>0</b> \		<b></b>	•0	,	7	<i>,,,,</i> ,,,			
-	_										OWING LIMITS:
pH: +/-	0.1	COND.: +/-	(>1000) OR	P: +/-	NA	D.O.:	+/- 0.3	TURB: +/-	10 % or	= 10</td <td>TEMP.: +/- <b>0.5°C</b></td>	TEMP.: +/- <b>0.5°C</b>
BOTTLES	FILLED	PRESERV	ATIVE CODE	<u>S</u> A-	NONE	В-	HNO3	C - H2SO4	D - NaOl	H E	- HCL F
NUMBER	SIZE	TYPE	PRESERVA	TIVE	FILTE	ERED	NUMBER	SIZE	TYPE	PRESER	VATIVE FILTERED
2	40 mL	VOA	E		Y	✓ N	1	125 mL	PLASTIC	В	
2	40 mL	VOA	А		□ Y	☑ N	1	100 mL	PLASTIC	F	☐ Y ☑ N
2	1 L	AMBER	Α		□ Y	✓ N					☐ Y ☐ N
1	500mL	PLASTIC	Α		□ Y	✓ N					□ Y □ N
1	125 mL	PLASTIC	С		Y	✓ N					□ Y □ N
SHIPPING	METHOD:	FEOE	·y	DATE	SHIPPE	ED: _{	sli 8/11		AIRBILL	NUMBER: 5	8684 1600 3424
COC NUMI	BER:	NO		SIGNA	ATURE:	5	Paul	hi	DATE SI	GNED:	8(18/1,
REVISED	06/2011							<del></del>	1	<u> </u>	

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phonetoll-free

231.773.5998 800.733.5998 231.773.6537

### **CHAIN-OF-CUSTODY RECORD**

Trace Analytical Laboratories, Inc.

2241 Black Creek Road Muskegon, MI 49444-2673 Page\_

TRACE ID NO.

		the science	ce of complia	nce	fax 231.773.6537	Muskegon, www.trace-l		1-267	3	USE ONLY	Log	ged By	:				С	hecke	d By:		•		
		Name: 772		-						E USE	Rec	eived o	n ice:	Yes	No	ı	Pre	eserva	tive Ch	ecked:	Yes	No	N/A
ö					KiewieZ					TRACE	Soil	Volatile	es Pres	erved	Me	OH L	ow Le	vel L	ab S	ampling	j Time:		_
Report Results To:					counce Ave SE SI	re. 40Z																	
esu					PIDS MI 49546	S		••		Regu	ulatory F	Require	ments	Tu	rnarour	d Reau	irement	ts	Matrix I	Kev			
۳ ۳					Fax: 61		<u>}</u>			MER	A TMDI	_'s		Sta	andard Day (F		Se The second	ĺ	S = Soi W = Wa	il		VI = Wipe: W = Liqui	
Sep.					@tresolutions, co.					NPD	ES			24	-48 Hot	ır (RUS	H)* ☐ approva			ediment	Α	. = Air . = Drinkir	
		616 915				Sampled by: 50	/MA			Spec					icquiro	, prior (				olid Was		L = Sludg	
_	Project	Name & #: 🔏	EC,	064	1048.0000.0000										ANA	LYSI	SRE	QUE	STEC	) 	<del></del>		<del></del>
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Bill To:	City, St	ate, Zip Code _	<del> </del>			- 1											<b>Y</b> .				/ /		th Haz
	Attn:				Phone:	PO #:								-/			) /0	\s\/	(h)	1001			Healt
	TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FIELD FILTERED	CLIENT S	SAMPLE ID		MATRIX	NUMBER OF CONTAINERS	/.	Right.			/ }/ v	25-7 V				(h)		/ REMAF	RKS	Possible Health Hazard
es		8/11/11	1057	y	MW-19-12			W	<u> </u>	2	Z	2	ı	1		/	7	×	<i>y</i>	<u>/</u>			
ervic		8/16/11	1149	**	MW-19-8			W	6	2	2							2					
S S		8/16/11	1310	y	MW-19-17			W	10	2	2	て	1	ł	i	1		×					
ytic		8/14/11	1433	4	MW-19-15			w	10	7	2	7	ş	(	•	í							
Request for Analytical Services		8/16/11	1545	4	MW-19-16			w	10	2	2	2	1	-	ŧ	4							
Į.		8/16/11	1/59	y	MW-Z5 (R)			W	10	1	Z	2	1	1	i	þ							
ank		8/16/11	1447	03	MW-295			W	10	2	2	2	l		ð	1							
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Sign	Item #	BELEA	SED BY		RECEIVED BY	DATE	TIM	E	Ite #		F	RELEA	SED B	Y		R	ECEIV	ED BY	<u> </u>		DATE	Т	IME
riease :		6 /aul	e principal	/	FEOEX	8/16/11	1843	) )		3)	)												
200		2)		) ]		, <u>, , , , , , , , , , , , , , , , , , </u>				4)	)												

	TF	₹ =	CE	_	phone	231.773.59	998 Trace Anal		borat			REC	ORD		F	Page_	1	of	S.	» 	TRA	CE ID NO	•
		the scien	ce of complia	nce	toll-free fax	800.733.59 231.773.69		MI 49444		'3	ONLY	Log	ged By	/:					Checke	ed By:			
	Client N	lame:	2c	, married							USE	Rec	eived	on ice:	Ye	s No	) .	P	reserva	ative C	hecked:	res No	N/A
ö	Contact	Person: 5	CO1 T	M	week e	wicz					TRACE USE	Soil	Volatil	es Pre	served	l: Me	ОН	Low Le	evel l	_ab S	Sampling Time	):	
Report Results To:	Mailing	Address: 7	075 0	PARTIE A	SELTLI	ie Ave	SE Sie. 40	2.															
esu						M1 4					Reg	ulatory	Require	ments	Tı	ırnarour	nd Rea	uiremer	nte#	Matrix	Key		
μŽ							6/6-975-	1098			ME	RA TMD king Wa	L's		St	andard		) t	<u> </u>	S = Sc	oil	WI = Wipes	
Sepo	Email A	ddress: 5	Paulu Ki	ew	icze +	re solution	ous.coni	,			NPE	ES	iler		24	4 Day ( 1-48 Ho	ur (RU	SH)* [			Sediment	LW = Liquid A = Air	i.
		616 919					Sampled by: \$	P/M	4_	<i>J</i>	Spe					Require	s prior	approv	aı	OI = C SO = 3	Solid Waste	D = Drinking SL = Sludge	-
	Project	Name & #: <i>C</i>	EC ,	0	oyous.	0000.	0000			†						ANA	ALYS	IS RE	QUE	STE	D		
 0	Billing A	ddress (if diffe	erent)	-							-	•	,	/ ,	/ ,	/ ,	Ι,	/d	g/ ,	Ι,	///	/ /	Ē
Bill To:	City, Sta	ite, Zip Code								<del></del>	. 49777	e te production of the second											Haza
8	Attn:				Phon	e:	PO #: _				G <sup>2</sup>	/	[	/ /	/ /				16/	/ /	////		Health
	TRACE NO.	DATE TAKEN	TIME	METALS FIELD FILTERED		CLIEN	T SAMPLE ID		MATRIX	NUMBER OF CONTAINERS	1		4								REM	ARKS	Possible Health Hazard
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erzi			1045	4	MW-1	9-13				10	and the second	2	2	g	4	4	d.						
Request for Analytical Services			1333	4	MW-1	9-6R	\		TOWER COMPANY	10	2	2	2	45	á	ý	ģ						
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Please Sign		Bind	lh'		KEO!	Ex	8/17/11	1915	Jane 2 Pro		3	)					1						
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### **CHAIN-OF-CUSTODY RECORD** TRACE ID NO. Trace Analytical Laboratories, Inc. phone 231.773.5998 toll-free 800.733.5998 2241 Black Creek Road 231.773.6537 Muskegon, MI 49444-2673 Logged By: Checked By: www.trace-labs.com Client Name: Received on ice: Preservative Checked: No N/A Contact Person: 500TT PAWLIKIEWICZ Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time: Mailing Address: 2025 E. BELTLINE Ne SE SA 402 City, State, Zip Code: Grans Rapins MI 49546 **Turnaround Requirements** Regulatory Requirements Matrix Kev MERA TMDL's Standard S = Soil WI = Wipes **Drinking Water** 3-4 Day (RUSH)\* W = Water LW = Liquid Waste Email Address: SPaulukiewcz @ tresoldians.com Cell #: 616 915 3601 Sampled by: 5p/MD **NPDES** 24-48 Hour (RUSH)\* SE = Sediment A = AirUSACE \* Requires prior approval Ol = OilD = Drinking Water Special SO = Solid Waste SL = Sludge Project Name & #- - CEC , 604048.0000.0000 ANALYSIS REQUESTED Billing Address (if different) Bill To: Possible Health Hazard City, State, Zip Code \_\_ Phone: PO #: Attn: MATRIX TRACE DATE TIME CLIENT SAMPLE ID NO. **TAKEN** TAKEN **REMARKS** 1553 MW-285 Services 185-WM POFI 20 10 Analytical DUP-OZ W 10 Request for Sign Item Item RELEASED BY DATE RECEIVED BY TIME **RELEASED BY** TIME RECEIVED BY DATE Please ! FESEX 1915 3)

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		the select	tee of compile	,ice	fax 231.773	.6537	Muskegon www.trace	, MI 49444 -labs.com	-2673		ONLY	Log	ged By	<b>/</b> :				(	Checke	ed By:				
	Client N										TRACE USE ONLY	Red	ceived (	on ice:	Yes	No	)	Pı	eserva	tive Cl	necked:	Yes	No	N/A
	Contact	Person: S	cott F	awl	4 kiewez						TRACE	Soil	Volatil	es Pres	served:	Me	OH L	ow Le	evel L	ab S	ampling	Time:		
Heport Results 10:		Address:			Belline Au	e SE	E STE	402				<u> </u>												
Se	City, Sta	ate, Zip Code	: Graz	d	Ropids MI	49	546				Pogu	ulatony	Require	monto	Tur	rnaroun	d Dog	iromor		Matrix				
Ė	Phone:	616	975	54	1/5 Fax	: 616	995	1098			MEF	A TMD	L's		Sta	andard		Æ	*	S = So	il		VI = Wipes	
600	Email A	ddress:	Pawlul	(iei	vcz @ tresol	Litions.	.com				NPD		ater		24-	Day (F	ır (RUS	H)* 🗆			ediment	Α	W = Liquid . = Air	
5	Cell #:	61691	5 3604			Sar	mpled by:	SP/MA			USA Spec				* F	Require	s prior	approva	al 	OI = O SO = S	il Solid Wast		= Drinkin L = Sludg	-
	Project	Name & #:	LEC	,	004048,000											ANA	LYSI	SRE	QUE	STE	)			
	Billing A	ddress (if diff	erent)					4,.						/ /	/ ,		/ ,	Ι,	/ ,	/ ,	/ /	/ /		7
	City, Sta	ate, Zip Code																				/ /		H 272
۵	Attn:		·		Phone:		PO #: _						/ /	/ /	//	//	/	/	/ /	/ /	/ /			4 lead
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# the science of compliance

**CHAIN-OF-CUSTODY RECORD** 

Page 2 of 3

TRACE	ID	NO.

phone	231.773.5998
toll-free	800.733.5998
fax	231.773.6537

Trace Analytical Laboratories, Inc.

2241 Black Creek Road Muskegon, MI 49444-2673 ONLY www.trace-labs.com

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800.733.5998 231.773.6537 CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.

2241 Black Creek Road Muskegon, MI 49444-2673 Page\_\_\_\_\_of\_\_\_\_3\_\_\_

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# Appendix B 3<sup>rd</sup> Quarter 2011 Laboratory Analytical Reports



phone 231.773.5998 toll-free 800.733.5998 fax231.773.6537

Trace Analytical Laboratories, Inc. 2241 Black Creek Road Muskegon, MI 49444-2673 info@trace-labs.com www.trace-labs.com

August 31, 2011

Mr. Scott Pawlukiewicz TRC Solutions 2025 E. Beltline Ave., SE, Ste 402 Grand Rapids, MI 49546

Phone: (616) 975-5415 Fax: (616) 975-1098

RE: Trace Project T11H198

> Client Project LEC / 004048.0000.0000

Dear Mr. Pawlukiewicz:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

For clients that require NELAC Accreditation, Trace certifies that these test results meet all requirements of the NELAC Standard, except for those analytes with a "N" notation. These analytes have not been evaluated by NELAC at Trace's discretion and will not be reported unless requested by client.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

Jon Mink Project Manager

**Enclosures** 



NJDEP Accreditation No. MI008 PADEP Accreditation No. 68-04471



fax

phone 231.773.5998 toll-free 800.733.5998 231.773.6537

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### **SAMPLE SUMMARY**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
T11H198-01	MW-19-12	Ground Water	sp/ma	08/16/11 10:57	08/17/11 10:52
T11H198-02	MW-19-8	Ground Water	sp/ma	08/16/11 11:49	08/17/11 10:52
T11H198-03	MW-19-17	Ground Water	sp/ma	08/16/11 13:10	08/17/11 10:52
T11H198-04	MW-19-15	Ground Water	sp/ma	08/16/11 14:33	08/17/11 10:52
T11H198-05	MW-19-16	Ground Water	sp/ma	08/16/11 15:45	08/17/11 10:52
T11H198-06	MW-25 (R)	Ground Water	sp/ma	08/16/11 11:59	08/17/11 10:52
T11H198-07	MW-29S	Ground Water	sp/ma	08/16/11 14:47	08/17/11 10:52
T11H198-08	MW-8	Ground Water	sp/ma	08/16/11 16:34	08/17/11 10:52
T11H198-09	TB-01	Aqueous	sp/ma	08/08/11	08/17/11 10:52
T11H198-10	MW-19-14	Ground Water	sp/ma	08/17/11 08:48	08/18/11 10:35
T11H198-11	MW-19-13	Ground Water	sp/ma	08/17/11 10:45	08/18/11 10:35
T11H198-12	MW-19-6R	Ground Water	sp/ma	08/17/11 13:33	08/18/11 10:35
T11H198-13	ATM-01	Aqueous	sp/ma	08/17/11 14:00	08/18/11 10:35
T11H198-14	MW-19-7R	Ground Water	sp/ma	08/17/11 14:42	08/18/11 10:35
T11H198-15	MW-19R	Ground Water	sp/ma	08/17/11 15:47	08/18/11 10:35
Г11Н198-16	MW-19-5R	Ground Water	sp/ma	08/17/11 16:48	08/18/11 10:35
T11H198-17	MW-30s	Ground Water	sp/ma	08/17/11 10:44	08/18/11 10:35
T11H198-18	MW-30i	Ground Water	sp/ma	08/17/11 12:19	08/18/11 10:35
T11H198-19	MW-30d	Ground Water	sp/ma	08/17/11 14:46	08/18/11 10:35
T11H198-20	MW-28s	Ground Water	sp/ma	08/17/11 15:53	08/18/11 10:35
T11H198-21	MW-28i	Ground Water	sp/ma	08/17/11 17:09	08/18/11 10:35
Г11Н198-22	Dup-01	Ground Water	sp/ma	08/17/11	08/18/11 10:35
Г11Н198-23	Dup-02	Ground Water	sp/ma	08/17/11	08/18/11 10:35
Г11Н198-24	TB-02	Aqueous	sp/ma	08/08/11	08/18/11 10:35
T11H198-25	DRC-02	Surface Water	sp/ma	08/18/11 08:30	08/19/11 10:32
T11H198-26	SW-D-5	Surface Water	sp/ma	08/18/11 08:35	08/19/11 10:32
T11H198-27	SW-R-1	Surface Water	sp/ma	08/18/11 08:45	08/19/11 10:32
T11H198-28	SW-R-2	Surface Water	sp/ma	08/18/11 08:55	08/19/11 10:32
T11H198-29	SW-R-3	Surface Water	sp/ma	08/18/11 09:10	08/19/11 10:32
T11H198-30	SW-R-4	Surface Water	sp/ma	08/18/11 09:20	08/19/11 10:32
Г11Н198-31	SW-D-4	Surface Water	sp/ma	08/18/11 09:40	08/19/11 10:32
Г11Н198-32	SW-R-6	Surface Water	sp/ma	08/18/11 10:00	08/19/11 10:32
Г11Н198-33	SW-D-3	Surface Water	sp/ma	08/18/11 10:20	08/19/11 10:32
T11H198-34	SW-D-2	Surface Water	sp/ma	08/18/11 10:30	08/19/11 10:32
T11H198-35	SW-D-1	Surface Water	sp/ma	08/18/11 10:40	08/19/11 10:32
T11H198-36	Dup-03	Surface Water	sp/ma	08/18/11	08/19/11 10:32
T11H198-37	MW-34S	Ground Water	sp/ma	08/18/11 09:08	08/19/11 10:32

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T11H198-38	MW-35S	Ground Water	sp/ma	08/18/11 09:28	08/19/11 10:32
T11H198-39	MW-32S	Ground Water	sp/ma	08/18/11 09:59	08/19/11 10:32
T11H198-40	MW-31S	Ground Water	sp/ma	08/18/11 10:24	08/19/11 10:32
T11H198-41	MW-33S	Ground Water	sp/ma	08/18/11 10:56	08/19/11 10:32
T11H198-42	RB-01	Aqueous	sp/ma	08/18/11 13:10	08/19/11 10:32
T11H198-43	RB-02	Aqueous	sp/ma	08/18/11 13:20	08/19/11 10:32
T11H198-44	RB-03	Aqueous	sp/ma	08/18/11 13:30	08/19/11 10:32
T11H198-45	TB-03	Aqueous	sp/ma	08/18/11	08/19/11 10:32
T11H198-46	MW-27	Ground Water	sp/ma	08/18/11 12:58	08/19/11 10:32



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### AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

### **DEFINITIONS**

LCS Laboratory Control Sample

LCSD Laboratory Control Sample Duplicate

MS Matrix Spike

MSD Matrix Spike Duplicate
RPD Relative Percent Difference

DUP Matrix Duplicate

RDL Reporting Detection Limit
MCL Maximum Contamination Limit
TIC Tentatively Identified Compound

<, ND or U Indicates the compound was analyzed for but not detected

\* Indicates a result that exceeds its associated MCL or Surrogate control limits

N Indicates that the compound has not been evaluated by NELAC

NA Indicates that the compound is not available.

### **DATA QUALIFIERS**

Trace ID: T024814-MS1  Analysis: EPA 8260B	
Toluene	Note 222: The MS and MSD recoveries were out of control. Because the sample background concentration of this analyte is greater than four times the spike amount, no data require qualification.
Trace ID: T024814-MSD1  Analysis: EPA 8260B	
Toluene	Note 222: The MS and MSD recoveries were out of control. Because the sample background concentration of this analyte is greater than four times the spike amount, no data require qualification.
Trace ID: T024841-MS1  Analysis: EPA 8260B	
Toluene	Note 222: The MS and MSD recoveries were out of control. Because the sample background concentration of this analyte is greater than four times the spike amount, no data require qualification.
Trace ID: T024841-MSD1  Analysis: EPA 8260B	
Toluene	Note 222: The MS and MSD recoveries were out of control. Because the sample background concentration of this analyte is greater than four times the spike amount, no data require qualification.
Trace ID: T024869-MS1  Analysis: EPA 8260B	
Benzene	Note 900b: The MS recovery and the corresponding RPD were out of control.  Because this analyte was not reported from the non-spiked version of the sample no data requires qualification.
Trace ID: T024869-MSD1  Analysis: EPA 8260B	

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Benzene	Note 900b: The MS recovery and the corresponding RPD were out of control. Because this analyte was not reported from the non-spiked version of the sample no data requires qualification.
Trace ID: T024915-MS1	
Analysis: EPA 350.1 Rev. 2.0	
Ammonia as N	Note 205: The MS and MSD recoveries were out of control low. The result and reporting limit for this analyte, in the non-spiked version of the sample, must be considered estimated.
Trace ID: T024915-MSD1  Analysis: EPA 350.1 Rev. 2.0	
Ammonia as N	Note 205: The MS and MSD recoveries were out of control low. The result and reporting limit for this analyte, in the non-spiked version of the sample, must be considered estimated.
Trace ID: T025018-BS1  Analysis: EPA 8260B	
Benzene	Note 112: The LCS recovery was out of control high. Because there were no positive results for this analyte in this QC batch, no data require qualification.
Toluene	Note 812 : Sporadic marginal recovery failure. No data require qualification.
Trace ID: T11H198-02  Analysis: EPA 8270C	
Nitrobenzene-d5	Note 802: One of the base/neutral surrogate recoveries was outside the control limits. Since the other two base/neutral surrogates were within the control limits, no data require qualification.
Trace ID: T11H198-17 <i>Analysis: EPA 8270C</i>	
Nitrobenzene-d5	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Trace ID: T11H198-20  Analysis: EPA 8270C	
2-Fluorobiphenyl	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Trace ID: T11H198-22	
Analysis: EPA 8270C	
Nitrobenzene-d5	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Trace ID: T11H198-24 <i>Analysis: EPA 8260B</i>	
Toluene	Note 900a: The analyte is potential carry over from a previous sample therefore the results must be considered suspect. The sample cannot be re-analyzed as all sample

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containers have been consumed.



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Trace ID: T11H198-37	
Analysis: EPA 350.1 Rev. 2.0 Ammonia as N	Note 205: The MS and MSD recoveries were out of control low. The result and reporting limit for this analyte, in the non-spiked version of the sample, must be considered estimated.
Trace ID: T11H198-38  Analysis: EPA 8270C	
2-Fluorobiphenyl	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Trace ID: T11H198-39 <i>Analysis: EPA 8270C</i>	
2-Fluorobiphenyl	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Trace ID: T11H198-40	
Analysis: EPA 8270C 2-Fluorobiphenyl	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Trace ID: T11H198-41  Analysis: EPA 8270C	
2-Fluorobiphenyl	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Trace ID: T11H198-46	
Analysis: EPA 300.0 Rev. 2.1 Nitrate as N	Note 900 : Due to instrument error, the sample was run past hold and must be considered estimate.
Analysis: EPA 8260B	
1,2-Dichloroethane-d4	Note 312: The surrogate recovery was out of control high when compared to control limits. As there are no positive results, no data require qualification.

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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Гrace ID: T11H198-01 Sample ID: MW-19-12		Date Collected: Date Received:		08/16/11 10:57 08/17/11 10:52		Matrix:	Ground Water		
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	) BY	ANALYZED	BY	NOTES	МС
VOLATILE ORGANIC COMPOUND	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024786									
1,3-Butadiene	<1.0 ug/L	1.0	1	08/18/11	was	08/18/11	was	N	
Benzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
Toluene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/18/11	was	08/18/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/18/11	was	08/18/11	was		
Surrogates:									
1,2-Dichloroethane-d4	93 %	68-133	1	08/18/11	was	08/18/11	was		
Toluene-d8	87 %	75-120	1	08/18/11	was	08/18/11	was		
SEMI-VOLATILE ORGANIC COMP	OUNDS BY GC-MS								
Analysis Method: EPA 8270C									
Batch: T024728									
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/18/11	kb	08/19/11	gmr		
Surrogates:	0.00	0.00					J		
Nitrobenzene-d5	61 %	36-103	1	08/18/11	kb	08/19/11	gmr		
2-Fluorobiphenyl	74 %	36-119	1	08/18/11	kb	08/19/11	gmr		
Terphenyl-d14	90 %	37-109	1	08/18/11	kb	08/19/11	gmr		
METALS TOTAL									
METALS, TOTAL									
Analysis Method: EPA 6010B									
Batch: T024879									
Phosphorus	<0.050 mg/L	0.050	1	08/25/11	ns	08/25/11	jlm		

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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Гrace ID: T11H198-01 Sample ID: MW-19-12			Date Collected: Date Received:		08/16/11 10:57 08/17/11 10:52		Matrix: Ground Water		
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCI
METALS, DISSOLVED									
Analysis Method: EPA 6020									
Batch: T024717									
Lead	<0.0030 mg/L	0.0030	1	08/18/11	jd	08/25/11	jd		
NET CHEMISTRY									
Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024710									
Nitrate as N	1.2 mg/L	0.22	5	08/17/11	bd	08/17/11	bd		
Sulfate as SO4	16 mg/L	2.5	5	08/17/11	bd	08/17/11	bd		
Analysis Method: EPA 350.1 Rev. 2.0									
Batch: T024768	0.040			00/40/44		00/40/44			
Ammonia as N	0.013 mg/L	0.010	1	08/19/11	da	08/19/11	sm		
Analysis Method: SM 2540 C-97									
Batch: T024707									
Total Dissolved Solids	400 mg/L	10	1	08/17/11	as	08/18/11	as		
Analysis Method: SM 2540 D-97									
Batch: T024729									
Total Suspended Solids	<4.0 mg/L	4.0	1	08/18/11	as	08/18/11	as		
Analysis Method: SM9215B									
Batch: T024702									
Heterotrophic Plate Count	28 CFU/mI	1.0	1	08/17/11	da	08/19/11	da		
/OLATILE ORGANIC COMPOUNDS BY G	c								
Analysis Method: RSK-175(MOD) / ISOTECH									
Batch: T024847									
Methane	<1.0 ug/L	1.0	1	08/22/11	was	08/22/11	was	N	

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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

race ID: T11H198-02 Sample ID: MW-19-8		Date Collected: Date Received:		08/16/11 11:49 08/17/11 10:52		Matrix: Ground Water		Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	) BY	ANALYZED	BY	NOTES	МС
OLATILE ORGANIC COMPOUNDS	BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024786									
1,3-Butadiene	<1.0 ug/L	1.0	1	08/18/11	was	08/18/11	was	N	
Benzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
Toluene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/18/11	was	08/18/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/18/11	was	08/18/11	was		
Surrogates:									
1,2-Dichloroethane-d4	99 %	68-133	1	08/18/11	was	08/18/11	was		
Toluene-d8	84 %	75-120	1	08/18/11	was	08/18/11	was		
EMI-VOLATILE ORGANIC COMPO	OUNDS BY GC-MS								
Analysis Method: EPA 8270C									
Batch: T024728									
Bis(2-ethylhexyl)phthalate	<0.96 ug/L	0.96	1	08/18/11	kb	08/19/11	gmr		
Surrogates:									
Nitrobenzene-d5	* 34 %	36-103	1	08/18/11	kb	08/19/11	gmr	802	
2-Fluorobiphenyl	41 %	36-119	1	08/18/11	kb	08/19/11	gmr		
Terphenyl-d14	51 %	37-109	1	08/18/11	kb	08/19/11	gmr		

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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-03 Date Collected: 08/16/11 13:10 Matrix: Ground Water Sample ID: MW-19-17 Date Received: 08/17/11 10:52 **PARAMETERS RESULTS UNITS** RDL DILUTION **PREPARED** BY **ANALYZED** BY **NOTES** MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T024786 1,3-Butadiene <1.0 ug/L 1.0 1 08/18/11 was 08/18/11 was Ν Benzene <0.50 ug/L 0.50 1 08/18/11 was 08/18/11 was Toluene <0.50 ug/L 0.50 1 08/18/11 was 08/18/11 was Ethylbenzene <0.50 ug/L 0.50 1 08/18/11 was 08/18/11 was 08/18/11 08/18/11 m,p-Xylene <1.0 ug/L 1.0 1 was was Ν 1 08/18/11 08/18/11 Ν o-Xylene <0.50 ug/L 0.50 was was 08/18/11 08/18/11 Xylenes, total 1 <1.5 ug/L 1.5 was was Surrogates: 117 % 1,2-Dichloroethane-d4 68-133 1 08/18/11 was 08/18/11 was 82 % Toluene-d8 75-120 1 08/18/11 was 08/18/11 was SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS Analysis Method: EPA 8270C Batch: T024728 08/18/11 08/19/11 Bis(2-ethylhexyl)phthalate kb gmr <0.98 ug/L 1 0.98 Surrogates: 38 % 08/18/11 Nitrobenzene-d5 36-103 1 kb 08/19/11 gmr 47 % 2-Fluorobiphenyl 36-119 08/18/11 08/19/11 1 kb gmr 57 % Terphenyl-d14 37-109 1 08/18/11 kb 08/19/11 gmr **METALS, TOTAL** Analysis Method: EPA 6010B Batch: T024879

### **CERTIFICATE OF ANALYSIS**

0.050

0.33 mg/L

08/25/11

ns

08/25/11

jlm

Phosphorus



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-03 Sample ID: MW-19-17		Date Collected:  Date Received:		08/16/11 13:10 08/17/11 10:52		Matrix: Ground Water			
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCI
METALS, DISSOLVED									
Analysis Method: EPA 6020									
Batch: T024717									
Lead	<0.0030 mg/L	0.0030	1	08/18/11	jd	08/25/11	jd		
NET CHEMISTRY									
Analysis Method: EPA 300.0 Rev. 2.1									
Batch: T024710									
Nitrate as N	0.44 mg/L	0.22	5	08/17/11	bd	08/17/11	bd		
Sulfate as SO4	3.8 mg/L	2.5	5	08/17/11	bd	08/17/11	bd		
Analysis Method: EPA 350.1 Rev. 2.0									
Batch: T024768									
Ammonia as N	0.99 mg/L	0.010	1	08/19/11	da	08/19/11	sm		
Analysis Method: SM 2540 C-97									
Batch: T024707									
Total Dissolved Solids	430 mg/L	10	1	08/17/11	as	08/18/11	as		
Analysis Method: SM 2540 D-97									
Batch: T024729									
Total Suspended Solids	25 mg/L	4.0	1	08/18/11	as	08/18/11	as		
Analysis Method: SM9215B									
Batch: T024702									
Heterotrophic Plate Count	150 CFU/ml	1.0	1	08/17/11	da	08/19/11	da		
/OLATILE ORGANIC COMPOUNDS BY GC									
Analysis Method: RSK-175(MOD) / ISOTECH									
Batch: T024847									
Methane	1400 ug/L	100	100	08/22/11	was	08/22/11	was	N	

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# **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-04 Sample ID: MW-19-15			Collected: Received:	08/16/11 14:3 08/17/11 10:5		Matrix:	Ground	ound Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC
OLATILE ORGANIC COMPOUNDS	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024751									
Benzene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was		
Toluene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/17/11	was	08/17/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/17/11	was	08/17/11	was		
Surrogates:									
1,2-Dichloroethane-d4	76 %	68-133	1	08/17/11	was	08/17/11	was		
Toluene-d8	89 %	75-120	1	08/17/11	was	08/17/11	was		
SEMI-VOLATILE ORGANIC COMPO	DUNDS BY GC-MS								
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T024728	DUNDS BY GC-MS								
Analysis Method: EPA 8270C	OUNDS BY GC-MS <0.95 ug/L	0.95	1	08/18/11	kb	08/19/11	gmr		
Analysis Method: EPA 8270C Batch: T024728		0.95	1	08/18/11	kb	08/19/11	gmr		
Analysis Method: EPA 8270C  Batch: T024728  Bis(2-ethylhexyl)phthalate		0.95 36-103	1	08/18/11 08/18/11	kb kb	08/19/11 08/19/11	gmr		
Analysis Method: EPA 8270C  Batch: T024728  Bis(2-ethylhexyl)phthalate  Surrogates:	<0.95 ug/L						J		
Analysis Method: EPA 8270C  Batch: T024728  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<0.95 ug/L 50 %	36-103	1	08/18/11	kb	08/19/11	gmr		
Analysis Method: EPA 8270C  Batch: T024728  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl	<0.95 ug/L 50 % 60 %	36-103 36-119	1 1	08/18/11 08/18/11	kb kb	08/19/11 08/19/11	gmr gmr		
Analysis Method: EPA 8270C  Batch: T024728  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14	<0.95 ug/L 50 % 60 %	36-103 36-119	1 1	08/18/11 08/18/11	kb kb	08/19/11 08/19/11	gmr gmr		
Analysis Method: EPA 8270C  Batch: T024728  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B	<0.95 ug/L 50 % 60 %	36-103 36-119	1 1	08/18/11 08/18/11	kb kb	08/19/11 08/19/11	gmr gmr		
Analysis Method: EPA 8270C  Batch: T024728  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024879	<0.95 ug/L 50 % 60 % 70 %	36-103 36-119 37-109	1 1 1	08/18/11 08/18/11 08/18/11	kb kb kb	08/19/11 08/19/11 08/19/11	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T024728  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B	<0.95 ug/L 50 % 60 %	36-103 36-119	1 1	08/18/11 08/18/11	kb kb	08/19/11 08/19/11	gmr gmr		
Analysis Method: EPA 8270C  Batch: T024728  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024879	<0.95 ug/L 50 % 60 % 70 %	36-103 36-119 37-109	1 1 1	08/18/11 08/18/11 08/18/11	kb kb kb	08/19/11 08/19/11 08/19/11	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T024728  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024879 Phosphorus	<0.95 ug/L 50 % 60 % 70 %	36-103 36-119 37-109	1 1 1	08/18/11 08/18/11 08/18/11	kb kb kb	08/19/11 08/19/11 08/19/11	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T024728  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024879  Phosphorus  METALS, DISSOLVED	<0.95 ug/L 50 % 60 % 70 %	36-103 36-119 37-109	1 1 1	08/18/11 08/18/11 08/18/11	kb kb kb	08/19/11 08/19/11 08/19/11	gmr gmr gmr		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-04 Date Collected: 08/16/11 14:33 Matrix: Ground Water

Sample ID: MW-19-15 Date Received: 08/17/11 10:52

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

### WET CHEMISTRY

Analysis	Method:	EPA	300.0	Rev.	2.1

Batch:	T024710
litrate a	s N

 Nitrate as N
 0.34 mg/L
 0.22
 5
 08/17/11
 bd
 08/17/11
 bd

 Sulfate as SO4
 24 mg/L
 2.5
 5
 08/17/11
 bd
 08/17/11
 bd

#### Analysis Method: EPA 350.1 Rev. 2.0

Batch: T024768

Ammonia as N 0.28 mg/L 0.010 1 08/19/11 da 08/19/11 sm

## Analysis Method: SM 2540 C-97

Batch: T024707

Total Dissolved Solids 750 mg/L 10 1 08/17/11 as 08/18/11 as

#### Analysis Method: SM 2540 D-97

Batch: T024729

Total Suspended Solids 7.0 mg/L 4.0 1 08/18/11 as 08/18/11 as

#### Analysis Method: SM9215B

Batch: T024702

Heterotrophic Plate Count 3800 CFU/ml 1.0 1 08/17/11 da 08/19/11 da

## **VOLATILE ORGANIC COMPOUNDS BY GC**

#### Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T024847

Methane 12 ug/L 1.0 1 08/22/11 was 08/22/11 was N



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## **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-05  Sample ID: MW-19-16			Collected: Received:	08/16/11 15:4 08/17/11 10:5		Matrix:	Ground	round Water		
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC	
VOLATILE ORGANIC COMPOL	JNDS BY GC-MS									
Analysis Method: EPA 8260B										
Batch: T024751										
Benzene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was			
Toluene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was			
Ethylbenzene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was			
m,p-Xylene	<1.0 ug/L	1.0	1	08/17/11	was	08/17/11	was	N		
o-Xylene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was	N		
Xylenes, total	<1.5 ug/L	1.5	1	08/17/11	was	08/17/11	was			
Surrogates:										
1,2-Dichloroethane-d4	77 %	68-133	1	08/17/11	was	08/17/11	was			
Toluene-d8	87 %	75-120	1	08/17/11	was	08/17/11	was			
Analysis Method: EPA 8270C Batch: T024728										
Bis(2-ethylhexyl)phthalate	<0.96 ug/L	0.96	1	08/18/11	kb	08/19/11	gmr			
Surrogates:										
Nitrobenzene-d5	59 %	36-103	1	08/18/11	kb	08/19/11	gmr			
2-Fluorobiphenyl	70 %	36-119	1	08/18/11	kb	08/19/11	gmr			
Terphenyl-d14	80 %	37-109	1	08/18/11	kb	08/19/11	gmr			
METALS, TOTAL										
Analysis Method: EPA 6010B										
Batch: T024879										
Phosphorus	<0.050 mg/L	0.050	1	08/25/11	ns	08/25/11	jlm			
METALS, DISSOLVED										
Analysis Method: EPA 6020										
Batch: T024717										

## **CERTIFICATE OF ANALYSIS**

<0.0030 mg/L

0.0030

08/18/11

jd

08/25/11

jd

Lead



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-05 Date Collected: 08/16/11 15:45 Matrix: Ground Water

Sample ID: MW-19-16 Date Received: 08/17/11 10:52 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024710 Nitrate as N 0.64 mg/L 5 08/17/11 08/17/11 0.22 bd bd Sulfate as SO4 81 mg/L 2.5 5 08/17/11 bd 08/17/11 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024768 Ammonia as N 0.030 mg/L 0.010 08/19/11 da 08/19/11 sm Analysis Method: SM 2540 C-97 Batch: T024707 08/17/11 **Total Dissolved Solids** 1100 mg/L 10 1 as 08/18/11 as Analysis Method: SM 2540 D-97 Batch: T024729 **Total Suspended Solids** 5.0 mg/L 4.0 1 08/18/11 as 08/18/11 as Analysis Method: SM9215B Batch: T024702 **Heterotrophic Plate Count** 44000 CFU/ml 08/17/11 08/19/11 1.0 da da **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847

Methane 2.5 ug/L 08/22/11 08/22/11 Ν was was 1.0



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Frace ID: T11H198-06 Sample ID: MW-25 (R)			Collected: Received:	08/16/11 11:5 08/17/11 10:5		Matrix:	Ground	und Water			
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC		
VOLATILE ORGANIC COMPOUNDS	S BY GC-MS										
Analysis Method: EPA 8260B											
Batch: T024751											
Benzene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was				
Toluene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was				
Ethylbenzene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was				
m,p-Xylene	<1.0 ug/L	1.0	1	08/17/11	was	08/17/11	was	N			
o-Xylene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was	N			
Xylenes, total	<1.5 ug/L	1.5	1	08/17/11	was	08/17/11	was				
Surrogates:											
1,2-Dichloroethane-d4	76 %	68-133	1	08/17/11	was	08/17/11	was				
Toluene-d8	90 %	75-120	1	08/17/11	was	08/17/11	was				
	DUNDS BY GC-MS										
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T024728		40	4	09/49/44	<b>l</b> h	08/49/44	amr				
SEMI-VOLATILE ORGANIC COMPO <u>Analysis Method: EPA 8270C</u> Batch: T024728 Bis(2-ethylhexyl)phthalate	DUNDS BY GC-MS 1.8 ug/L	1.0	1	08/18/11	kb	08/19/11	gmr				
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T024728		<b>1.0</b> 36-103	1	<b>08/18/11</b> 08/18/11	<b>kb</b> kb	<b>08/19/11</b> 08/19/11	_				
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T024728 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5	1.8 ug/L						gmr				
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T024728 Bis(2-ethylhexyl)phthalate Surrogates:	<b>1.8 ug/L</b> 40 %	36-103	1	08/18/11	kb	08/19/11	_				
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T024728 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl	<b>1.8 ug/L</b> 40 % 48 %	36-103 36-119	1	08/18/11 08/18/11	kb kb	08/19/11 08/19/11	gmr				
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T024728 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl	<b>1.8 ug/L</b> 40 % 48 %	36-103 36-119	1	08/18/11 08/18/11	kb kb	08/19/11 08/19/11	gmr				
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T024728 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	<b>1.8 ug/L</b> 40 % 48 %	36-103 36-119	1	08/18/11 08/18/11	kb kb	08/19/11 08/19/11	gmr				
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T024728 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	<b>1.8 ug/L</b> 40 % 48 %	36-103 36-119	1	08/18/11 08/18/11	kb kb	08/19/11 08/19/11	gmr				
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T024728 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 METALS, TOTAL Analysis Method: EPA 6010B	<b>1.8 ug/L</b> 40 % 48 %	36-103 36-119	1	08/18/11 08/18/11	kb kb	08/19/11 08/19/11	gmr				
BEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T024728 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 METALS, TOTAL Analysis Method: EPA 6010B Batch: T024879	1.8 ug/L 40 % 48 % 53 %	36-103 36-119 37-109	1 1 1	08/18/11 08/18/11 08/18/11	kb kb kb	08/19/11 08/19/11 08/19/11	gmr gmr gmr				
BEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T024728 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 METALS, TOTAL Analysis Method: EPA 6010B Batch: T024879 Phosphorus	1.8 ug/L 40 % 48 % 53 %	36-103 36-119 37-109	1 1 1	08/18/11 08/18/11 08/18/11	kb kb kb	08/19/11 08/19/11 08/19/11	gmr gmr gmr				

## **CERTIFICATE OF ANALYSIS**

0.0030

08/18/11

jd

08/25/11

jd

0.10 mg/L

Lead



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-06 Date Collected: 08/16/11 11:59 Matrix: Ground Water

Sample ID: MW-25 (R) Date Received: 08/17/11 10:52

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

#### WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1
-------------------------------------

Batch: T024710

Nitrate as N 0.24 mg/L 5 08/17/11 08/17/11 0.22 bd bd Sulfate as SO4 4.8 mg/L 2.5 5 08/17/11 bd 08/17/11 bd

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T024768

Ammonia as N 0.16 mg/L 0.010 1 08/19/11 da 08/19/11 sm

Analysis Method: SM 2540 C-97

Batch: T024707

Total Dissolved Solids 330 mg/L 67 6.666667 08/17/11 as 08/18/11 as

Analysis Method: SM 2540 D-97

Batch: T024729

Total Suspended Solids 1400 mg/L 27 6.666667 08/18/11 as 08/18/11 as

Analysis Method: SM9215B

Batch: T024702

Heterotrophic Plate Count > 30000 CFU/ml 1.0 1 08/17/11 da 08/19/11 da

### **VOLATILE ORGANIC COMPOUNDS BY GC**

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T024847

Methane 19 ug/L 1.0 1 08/22/11 was 08/22/11 was N



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# **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-07  Sample ID: MW-29S			Collected: Received:	08/16/11 14:4 08/17/11 10:5		Matrix:	Ground Water		
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
VOLATILE ORGANIC COMPOU	INDS BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024751									
Benzene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was		
Toluene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/17/11	was	08/17/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/17/11	was	08/17/11	was		
Surrogates:									
1,2-Dichloroethane-d4	77 %	68-133	1	08/17/11	was	08/17/11	was		
Toluene-d8	90 %	75-120	1	08/17/11	was	08/17/11	was		
Analysis Method: EPA 8270C Batch: T024728									
Bis(2-ethylhexyl)phthalate	<0.96 ug/L	0.96	1	08/18/11	kb	08/19/11	gmr		
Surrogates:									
Nitrobenzene-d5	38 %	36-103	1	08/18/11	kb	08/19/11	gmr		
2-Fluorobiphenyl	46 %	36-119	1	08/18/11	kb	08/19/11	gmr		
Terphenyl-d14	52 %	37-109	1	08/18/11	kb	08/19/11	gmr		
METALS, TOTAL									
Analysis Method: EPA 6010B									
Batch: T024879									
Phosphorus	0.35 mg/L	0.050	1	08/25/11	ns	08/25/11	jlm		
METALS, DISSOLVED									
Analysis Method: EPA 6020									
Batch: T024717									

## **CERTIFICATE OF ANALYSIS**

<0.0030 mg/L

0.0030

08/18/11

jd

08/25/11

Lead



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Batch: T024847

Methane

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-07 Date Collected: 08/16/11 14:47 Matrix: Ground Water Sample ID: MW-29S Date Received: 08/17/11 10:52 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024710 Nitrate as N 0.25 mg/L 5 08/17/11 08/17/11 bd 0.22 bd Sulfate as SO4 <2.5 mg/L 2.5 5 08/17/11 bd 08/17/11 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024768 Ammonia as N 4.5 mg/L 0.010 08/19/11 da 08/19/11 sm Analysis Method: SM 2540 C-97 Batch: T024707 08/17/11 **Total Dissolved Solids** 450 mg/L 10 1 as 08/18/11 as Analysis Method: SM 2540 D-97 Batch: T024729 **Total Suspended Solids** 20 mg/L 4.0 1 08/18/11 as 08/18/11 as Analysis Method: SM9215B Batch: T024702 **Heterotrophic Plate Count** 250 CFU/ml 08/17/11 08/19/11 da da 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH

### **CERTIFICATE OF ANALYSIS**

4200 ug/L

100

100

08/22/11

was

08/22/11

Ν

was



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Lead

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-08 Sample ID: MW-8			Collected: Received:	08/16/11 16:3 08/17/11 10:5		Matrix:	Ground	ound Water			
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC		
VOLATILE ORGANIC COMPOUND	S BY GC-MS										
Analysis Method: EPA 8260B											
Batch: T024751											
Benzene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was				
Toluene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was				
Ethylbenzene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was				
m,p-Xylene	<1.0 ug/L	1.0	1	08/17/11	was	08/17/11	was	N			
o-Xylene	<0.50 ug/L	0.50	1	08/17/11	was	08/17/11	was	N			
Xylenes, total	<1.5 ug/L	1.5	1	08/17/11	was	08/17/11	was				
Surrogates:											
1,2-Dichloroethane-d4	77 %	68-133	1	08/17/11	was	08/17/11	was				
Toluene-d8	90 %	75-120	1	08/17/11	was	08/17/11	was				
Analysis Method: EPA 8270C  Batch: T024848  Bis(2-ethylhexyl)phthalate	1.9 ug/L	0.99	1	08/23/11	kb	08/24/11	gmr				
Surrogates:	1.9 ug/L	0.99	'	00/23/11	KU	00/24/11	giiii				
Nitrobenzene-d5	39 %	36-103	1	08/23/11	kb	08/24/11	gmr				
2-Fluorobiphenyl	44 %	36-119	1	08/23/11	kb	08/24/11	gmr				
Terphenyl-d14	57 %	37-109	1	08/23/11	kb	08/24/11	gmr				
, ,							J				
METALS, TOTAL											
Analysis Method: EPA 6010B											
Batch: T024879											
	0.052 mg/L	0.050	1	08/25/11	ns	08/25/11	jlm				
Phosphorus	J										
·	·										
·	·										
METALS, DISSOLVED	·										

## **CERTIFICATE OF ANALYSIS**

<0.0030 mg/L

08/18/11

08/25/11

0.0030



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#### **ANALYTICAL RESULTS**

Date Collected:

08/16/11 16:34

Matrix: Ground Water

Trace Project ID: T11H198

Trace ID:

Client Project ID: LEC / 004048.0000.0000

T11H198-08

Sample ID: MW-8 Date Received: 08/17/11 10:52 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024710 Nitrate as N 0.25 mg/L 5 08/17/11 08/17/11 bd 0.22 bd Sulfate as SO4 <2.5 mg/L 2.5 5 08/17/11 bd 08/17/11 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024768 Ammonia as N 0.65 mg/L 0.010 08/19/11 da 08/19/11 sm Analysis Method: SM 2540 C-97 Batch: T024707 08/17/11 **Total Dissolved Solids** 450 mg/L 10 1 as 08/18/11 as

### **VOLATILE ORGANIC COMPOUNDS BY GC**

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T024847

Analysis Method: SM 2540 D-97

Batch: T024729

Total Suspended Solids

Analysis Method: SM9215B

Batch: T024702

Heterotrophic Plate Count

Methane 3100 ug/L 100 100 08/22/11 was 08/22/11 was N

4.0

1.0

1

08/18/11

08/17/11

as

da

08/18/11

08/19/11

as

da

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### **CERTIFICATE OF ANALYSIS**

61 mg/L

300 CFU/ml



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-09 Date Collected: 08/08/11 Matrix: Aqueous Sample ID: TB-01 Date Received: 08/17/11 10:52 **RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION **PREPARED** BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T024751 08/17/11 Benzene <0.50 ug/L 0.50 1 was 08/17/11 was Toluene <0.50 ug/L 0.50 1 08/17/11 was 08/17/11 was Ethylbenzene 08/17/11 <0.50 ug/L 0.50 1 08/17/11 was was m,p-Xylene <1.0 ug/L 1.0 1 08/17/11 was 08/17/11 was Ν 08/17/11 08/17/11 o-Xylene <0.50 ug/L Ν 0.50 1 was was 08/17/11 Xylenes, total <1.5 ug/L 1 08/17/11 1.5 was was Surrogates: 77 % 1,2-Dichloroethane-d4 68-133 08/17/11 was 08/17/11 was 90 % Toluene-d8 75-120 08/17/11 was 08/17/11 was



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0.56 ug/L

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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Trace ID:

Benzene

Client Project ID: LEC / 004048.0000.0000

T11H198-10

 Sample ID:
 MW-19-14
 Date Received:
 08/18/11 10:35

 PARAMETERS
 RESULTS UNITS
 RDL
 DILUTION
 PREPARED
 BY
 ANALYZED
 BY
 NOTES
 MCL

0.50

Date Collected:

08/17/11 08:48

08/18/11

Matrix: Ground Water

N N

08/18/11

### **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

Analysis Me	ethod: EPA 8260	<u>B</u>
Batch:	T024786	

Toluene	2400 ug/L	25	50	08/19/11	was	08/19/11	was	
Ethylbenzene	190 ug/L	25	50	08/19/11	was	08/19/11	was	
m,p-Xylene	670 ug/L	50	50	08/19/11	was	08/19/11	was	
o-Xylene	200 ug/L	25	50	08/19/11	was	08/19/11	was	
Xylenes, total	860 ug/L	75	50	08/19/11	was	08/19/11	was	
Surrogates:								
1,2-Dichloroethane-d4	124 %	68-133	1	08/18/11	was	08/18/11	was	
1,2-Dichloroethane-d4	111 %	68-133	50	08/19/11	was	08/19/11	was	
Toluene-d8	83 %	75-120	1	08/18/11	was	08/18/11	was	
Toluene-d8	80 %	75-120	50	08/19/11	was	08/19/11	was	

## SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis	s Method:	EPA	8270C

Batch: T024793							
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/22/11	kb	08/22/11	gmr
Surrogates:							
Nitrobenzene-d5	64 %	36-103	1	08/22/11	kb	08/22/11	gmr
2-Fluorobiphenyl	63 %	36-119	1	08/22/11	kb	08/22/11	gmr
Terphenyl-d14	73 %	37-109	1	08/22/11	kb	08/22/11	gmr

## METALS, TOTAL

#### Analysis Method: EPA 6010B

Batch: T024879

Phosphorus 0.087 mg/L 0.050 1 08/25/11 ns 08/25/11 jlm



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Frace ID: T11H198-10 Sample ID: MW-19-14			Collected: Received:	08/17/11 08:4 08/18/11 10:3		Matrix:	Ground \	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCI
METALS, DISSOLVED									
Analysis Method: EPA 6020									
Batch: T024717									
Lead	<0.0030 mg/L	0.0030	1	08/18/11	jd	08/25/11	jd		
NET CHEMISTRY									
Analysis Method: EPA 300.0 Rev. 2.1									
Batch: T024742									
Nitrate as N	0.40 mg/L	0.22	5	08/18/11	bd	08/18/11	bd		
Sulfate as SO4	83 mg/L	2.5	5	08/18/11	bd	08/18/11	bd		
Analysis Method: EPA 350.1 Rev. 2.0									
Batch: T024768									
Ammonia as N	0.061 mg/L	0.010	1	08/19/11	da	08/19/11	sm		
Analysis Method: SM 2540 C-97									
Batch: T024777									
Total Dissolved Solids	1000 mg/L	10	1	08/19/11	as	08/22/11	as		
Analysis Method: SM 2540 D-97									
Batch: T024776									
Total Suspended Solids	15 mg/L	4.0	1	08/19/11	as	08/19/11	sm		
Analysis Method: SM9215B									
Batch: T024747									
Heterotrophic Plate Count	1300 CFU/mI	1.0	1	08/18/11	da	08/20/11	da		
/OLATILE ORGANIC COMPOUNDS BY GC									
Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847									
Methane	85 ug/L	10	10	08/22/11	was	08/22/11	was	N	



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

T11H198-11 Date Collected: 08/17/11 10:45 Matrix: Ground Water Trace ID: Sample ID: MW-19-13 Date Received: 08/18/11 10:35 **PARAMETERS RESULTS UNITS** RDL DILUTION **PREPARED** BY **ANALYZED** BY **NOTES** MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T024814 Benzene 1.8 ug/L 0.50 1 08/19/11 was 08/19/11 was Toluene 0.64 ug/L 1 08/19/11 was 08/19/11 was 0.50 Ethylbenzene 7.8 ug/L 08/19/11 08/19/11 0.50 1 was was 08/19/11 m,p-Xylene 57 ug/L 1.0 1 08/19/11 was was Ν o-Xylene 08/19/11 08/19/11 Ν <0.50 ug/L 0.50 was was Xylenes, total 57 ug/L 08/19/11 08/19/11 was was 1.5 Surrogates: 1,2-Dichloroethane-d4 109 % 68-133 08/19/11 08/19/11 was was 81 % Toluene-d8 75-120 08/19/11 08/19/11 was was SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS Analysis Method: EPA 8270C Batch: T024793 Bis(2-ethylhexyl)phthalate 08/22/11 kb 08/22/11 <0.95 ug/L 0.95 gmr Surrogates: 58 % Nitrobenzene-d5 36-103 1 08/22/11 kb 08/22/11 gmr 66 % 2-Fluorobiphenyl 36-119 08/22/11 08/22/11 1 kb gmr 74 % Terphenyl-d14 37-109 08/22/11 kb 08/22/11 gmr **METALS, TOTAL** Analysis Method: EPA 6010B Batch: T024879 Phosphorus 0.18 mg/L 0.050 08/25/11 ns 08/25/11 jlm METALS, DISSOLVED Analysis Method: EPA 6020 Batch: T024717

#### **CERTIFICATE OF ANALYSIS**

<0.0030 mg/L

0.0030

08/18/11

jd

1

08/25/11

jd

Lead



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-11 Date Collected: 08/17/11 10:45 Matrix: Ground Water Sample ID: MW-19-13 Date Received: 08/18/11 10:35 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024742 Nitrate as N <0.22 mg/L 5 08/18/11 bd 08/18/11 bd 0.22 Sulfate as SO4 14 mg/L 2.5 5 08/18/11 bd 08/18/11 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024768 Ammonia as N 0.24 mg/L 0.010 08/19/11 da 08/19/11 sm Analysis Method: SM 2540 C-97 Batch: T024777 **Total Dissolved Solids** 08/19/11 590 mg/L 10 1 as 08/22/11 as Analysis Method: SM 2540 D-97 Batch: T024776 **Total Suspended Solids** 28 mg/L 4.0 1 08/19/11 as 08/19/11 sm Analysis Method: SM9215B Batch: T024747 **Heterotrophic Plate Count** 100 CFU/ml 08/18/11 08/20/11 da da 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847

100

08/22/11

was

08/22/11

Ν

was

### **CERTIFICATE OF ANALYSIS**

4500 ug/L

100

Methane



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# **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

race ID: T11H198-12 sample ID: MW-19-6R			Collected: Received:	08/17/11 13:3 08/18/11 10:3		Matrix:	Ground	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC
OLATILE ORGANIC COMPOUNDS	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024869									
Benzene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
Toluene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/22/11	was	08/23/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/22/11	was	08/23/11	was		
Surrogates:									
1,2-Dichloroethane-d4	109 %	68-133	1	08/22/11	was	08/23/11	was		
Toluene-d8	82 %	75-120	1	08/22/11	was	08/23/11	was		
EMI-VOLATILE ORGANIC COMPO	OUNDS BY GC-MS								
SEMI-VOLATILE ORGANIC COMPO <u>Analysis Method: EPA 8270C</u> Batch: T024793	DUNDS BY GC-MS								
Analysis Method: EPA 8270C	OUNDS BY GC-MS <0.96 ug/L	0.96	1	08/22/11	kb	08/22/11	gmr		
Analysis Method: EPA 8270C Batch: T024793		0.96	1	08/22/11	kb	08/22/11	gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate		0.96 36-103	1	08/22/11 08/22/11	kb kb	08/22/11 08/22/11	gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates:	<0.96 ug/L						J		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<0.96 ug/L 57 %	36-103	1	08/22/11	kb	08/22/11	gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14	<0.96 ug/L 57 % 66 %	36-103 36-119	1	08/22/11 08/22/11	kb kb	08/22/11 08/22/11	gmr gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14	<0.96 ug/L 57 % 66 %	36-103 36-119	1	08/22/11 08/22/11	kb kb	08/22/11 08/22/11	gmr gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B	<0.96 ug/L 57 % 66 %	36-103 36-119	1	08/22/11 08/22/11	kb kb	08/22/11 08/22/11	gmr gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024879	<0.96 ug/L 57 % 66 % 74 %	36-103 36-119 37-109	1 1 1	08/22/11 08/22/11 08/22/11	kb kb kb	08/22/11 08/22/11 08/22/11	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B	<0.96 ug/L 57 % 66 %	36-103 36-119	1	08/22/11 08/22/11	kb kb	08/22/11 08/22/11	gmr gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024879	<0.96 ug/L 57 % 66 % 74 %	36-103 36-119 37-109	1 1 1	08/22/11 08/22/11 08/22/11	kb kb kb	08/22/11 08/22/11 08/22/11	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024879 Phosphorus	<0.96 ug/L 57 % 66 % 74 %	36-103 36-119 37-109	1 1 1	08/22/11 08/22/11 08/22/11	kb kb kb	08/22/11 08/22/11 08/22/11	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024879 Phosphorus  METALS, DISSOLVED	<0.96 ug/L 57 % 66 % 74 %	36-103 36-119 37-109	1 1 1	08/22/11 08/22/11 08/22/11	kb kb kb	08/22/11 08/22/11 08/22/11	gmr gmr gmr		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-12 Date Collected: 08/17/11 13:33 Matrix: Ground Water

Sample ID: MW-19-6R Date Received: 08/18/11 10:35

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

#### WET CHEMISTRY

Analysis	<u> Method: EPA 300.0 Rev. 2.1</u>	

Batch:	T024742
Nitrate a	s N

Nitrate as N	1.3 mg/L	0.22	5	08/18/11	bd	08/18/11	bd
Sulfate as SO4	38 mg/L	2.5	5	08/18/11	bd	08/18/11	bd

#### Analysis Method: EPA 350.1 Rev. 2.0

Batch:	T024768

Animonia as N 0.010 mg/L 0.010 i 00/13/11 da 00/13/11 siii	Ammonia as N	0.018 mg/L	0.010	1	08/19/11	da	08/19/11	sm
--	--------------	------------	-------	---	----------	----	----------	----

### Analysis Method: SM 2540 C-97

Batch:	T024777

Total Dissolved Solids	740 mg/L	10	1	08/19/11	as	08/22/11	as

#### Analysis Method: SM 2540 D-97

Batch: T024776

Total Suspended Solids <4.0 mg/L 4.0 1 08/19/11 as 08/19/11 sm

#### Analysis Method: SM9215B

Batch: T024747

Heterotrophic Plate Count 450 CFU/ml 1.0 1 08/18/11 da 08/20/11 da

## **VOLATILE ORGANIC COMPOUNDS BY GC**

### Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T024847

Methane 32 ug/L 1.0 1 08/22/11 was 08/22/11 was N



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-13 Sample ID: ATM-01			Collected: Received:	08/17/11 14:00 08/18/11 10:35		Matrix:	Aqueou		
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCI
OLATILE ORGANIC COMPOUNI	DS BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024786									
Benzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
Toluene	0.54 ug/L	0.50	1	08/18/11	was	08/18/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/18/11	was	08/18/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/18/11	was	08/18/11	was		
Surrogates:									
1,2-Dichloroethane-d4	106 %	68-133	1	08/18/11	was	08/18/11	was		
Toluene-d8	84 %	75-120	1	08/18/11	was	08/18/11	was		
EMI-VOLATILE ORGANIC COMP	POUNDS BY GC-MS								
SEMI-VOLATILE ORGANIC COMP Analysis Method: EPA 8270C Batch: T024793 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5	<0.96 ug/L 59 %	0.96 36-103	1	08/22/11 08/22/11	kb kb	08/22/11 08/22/11	gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl	<0.96 ug/L 59 % 64 %	36-103 36-119	1	08/22/11 08/22/11	kb kb	08/22/11 08/22/11	gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<0.96 ug/L 59 %	36-103	1	08/22/11	kb	08/22/11	gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl	<0.96 ug/L 59 % 64 %	36-103 36-119	1	08/22/11 08/22/11	kb kb	08/22/11 08/22/11	gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	<0.96 ug/L 59 % 64 %	36-103 36-119	1	08/22/11 08/22/11	kb kb	08/22/11 08/22/11	gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	<0.96 ug/L 59 % 64 %	36-103 36-119	1	08/22/11 08/22/11	kb kb	08/22/11 08/22/11	gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B	<0.96 ug/L 59 % 64 %	36-103 36-119	1	08/22/11 08/22/11	kb kb	08/22/11 08/22/11	gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B Batch: T024879 Phosphorus  Analysis Method: EPA 6020	<0.96 ug/L 59 % 64 % 73 %	36-103 36-119 37-109	1 1 1	08/22/11 08/22/11 08/22/11	kb kb kb	08/22/11 08/22/11 08/22/11	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024879	<0.96 ug/L 59 % 64 % 73 %	36-103 36-119 37-109	1 1 1	08/22/11 08/22/11 08/22/11	kb kb kb	08/22/11 08/22/11 08/22/11	gmr gmr gmr		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Methane

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-13 Date Collected: 08/17/11 14:00 Matrix: Aqueous Sample ID: ATM-01 Date Received: 08/18/11 10:35 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024742 Nitrate as N <0.22 mg/L 5 08/18/11 bd 08/18/11 bd 0.22 Sulfate as SO4 <2.5 mg/L 2.5 5 08/18/11 bd 08/18/11 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024768 Ammonia as N 0.020 mg/L 08/19/11 da 08/19/11 0.010 sm Analysis Method: SM 2540 C-97 Batch: T024777 **Total Dissolved Solids** <10 mg/L 10 1 08/19/11 as 08/22/11 as Analysis Method: SM 2540 D-97 Batch: T024776 **Total Suspended Solids** <4.0 mg/L 4.0 1 08/19/11 as 08/19/11 sm Analysis Method: SM9215B Batch: T024747 08/18/11 Heterotrophic Plate Count <1.0 CFU/ml 1.0 da 08/20/11 da **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847

### **CERTIFICATE OF ANALYSIS**

<1.0 ug/L

1.0

08/22/11

was

08/22/11

was

Ν



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# **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Lead

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-14  Sample ID: MW-19-7R					12 35	Matrix: Ground Wa		Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC
VOLATILE ORGANIC COMPOUND	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024786									
Benzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
Toluene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/18/11	was	08/18/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/18/11	was	08/18/11	was		
Surrogates:									
1,2-Dichloroethane-d4	105 %	68-133	1	08/18/11	was	08/18/11	was		
Toluene-d8	83 %	75-120	1	08/18/11	was	08/18/11	was		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate	3.1 ug/L	0.95	1	08/22/11	kb	08/22/11	gmr		
Surrogates:	o.r ug/L	0.55	•	00/22/11	N.	OO/LL/11	9		
Nitrobenzene-d5	54 %	36-103	1	08/22/11	kb	08/22/11	gmr		
2-Fluorobiphenyl	59 %	36-119	1	08/22/11	kb	08/22/11	gmr		
Terphenyl-d14	63 %	37-109	1	08/22/11	kb	08/22/11	gmr		
METALS, TOTAL									
Analysis Method: EPA 6010B									
D-4-h: T004070									
Batch: T024879							:I		
Phosphorus	0.31 mg/L	0.050	1	08/25/11	ns	08/25/11	jlm		
Phosphorus	0.31 mg/L	0.050	1	08/25/11	ns	08/25/11	Jim		
Phosphorus	0.31 mg/L	0.050	1	08/25/11	ns	08/25/11	JIIII		
Phosphorus METALS, DISSOLVED	0.31 mg/L	0.050	1	08/25/11	ns	08/25/11	jim		

## **CERTIFICATE OF ANALYSIS**

<0.0030 mg/L

0.0030

08/18/11

08/25/11



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T024847

Methane

Trace ID: T11H198-14 Date Collected: 08/17/11 14:42 Matrix: Ground Water Sample ID: MW-19-7R Date Received: 08/18/11 10:35 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024742 Nitrate as N 3.0 mg/L 5 08/18/11 08/18/11 0.22 bd bd Sulfate as SO4 36 mg/L 2.5 5 08/18/11 bd 08/18/11 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024768 Ammonia as N 0.14 mg/L 0.010 08/19/11 da 08/19/11 sm Analysis Method: SM 2540 C-97 Batch: T024777 **Total Dissolved Solids** 670 mg/L 08/19/11 10 1 as 08/22/11 as Analysis Method: SM 2540 D-97 Batch: T024776 08/19/11 08/19/11 Total Suspended Solids <4.0 mg/L 4.0 1 as sm Analysis Method: SM9215B Batch: T024747 **Heterotrophic Plate Count** 150 CFU/ml 08/18/11 08/20/11 da da 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** 

### **CERTIFICATE OF ANALYSIS**

1.1 ug/L

1.0

08/22/11

was

08/22/11

Ν

was



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Phosphorus

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-15 Sample ID: MW-19R					Date Collected:         08/17/11 15:47         Matrix:           Date Received:         08/18/11 10:35				Ground	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC		
OLATILE ORGANIC COMPOUNDS	S BY GC-MS										
Analysis Method: EPA 8260B											
Batch: T024786											
Benzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was				
Toluene	230 ug/L	5.0	10	08/18/11	was	08/23/11	was				
Ethylbenzene	39 ug/L	0.50	1	08/18/11	was	08/18/11	was				
m,p-Xylene	93 ug/L	1.0	1	08/18/11	was	08/18/11	was	N			
o-Xylene	29 ug/L	0.50	1	08/18/11	was	08/18/11	was	N			
Xylenes, total	120 ug/L	1.5	1	08/18/11	was	08/18/11	was				
Surrogates:											
1,2-Dichloroethane-d4	116 %	68-133	1	08/18/11	was	08/18/11	was				
1,2-Dichloroethane-d4	108 %	68-133	10	08/18/11	was	08/23/11	was				
Toluene-d8	82 %	75-120	1	08/18/11	was	08/18/11	was				
Toluene-d8	82 %	75-120	10	08/18/11	was	08/23/11	was				
SEMI-VOLATILE ORGANIC COMPO	DUNDS BY GC-MS										
Analysis Method: EPA 8270C											
Batch: T024793											
Bis(2-ethylhexyl)phthalate	<0.98 ug/L	0.98	1	08/22/11	kb	08/22/11	gmr				
Surrogates:											
Nitrobenzene-d5	53 %	36-103	1	08/22/11	kb	08/22/11	gmr				
2-Fluorobiphenyl	57 %	36-119	1	08/22/11	kb	08/22/11	gmr				
Terphenyl-d14	62 %	37-109	1	08/22/11	kb	08/22/11	gmr				
METALS, TOTAL											
Analysis Method: EPA 6010B											

## **CERTIFICATE OF ANALYSIS**

<0.050 mg/L

0.050

08/25/11

ns

08/25/11



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

T11H198-15 Date Collected: 08/17/11 15:47 Trace ID: Matrix: Ground Water Sample ID: MW-19R Date Received: 08/18/11 10:35 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL METALS, DISSOLVED Analysis Method: EPA 6020 Batch: T024717 Lead 0.049 mg/L 0.0030 08/18/11 jd 08/25/11 jd **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024742 Nitrate as N 0.63 mg/L 5 08/18/11 08/18/11 0.22 bd bd 08/18/11 Sulfate as SO4 35 mg/L 5 08/18/11 bd bd 2.5 Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024768 0.050 mg/L 08/19/11 08/19/11 Ammonia as N 1 da 0.010 sm Analysis Method: SM 2540 C-97 Batch: T024777 **Total Dissolved Solids** 780 mg/L 08/19/11 08/22/11 10 as as Analysis Method: SM 2540 D-97 Batch: T024776 **Total Suspended Solids** 8.0 mg/L 08/19/11 08/19/11 sm 4.0 as Analysis Method: SM9215B Batch: T024747 **Heterotrophic Plate Count** 180 CFU/ml 08/18/11 da 08/20/11 da 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847 Methane 16 ug/L 08/22/11 08/22/11 Ν 1.0



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-16 Date Collected: 08/17/11 16:48 Matrix: Ground Water

Sample ID: MW-19-5R Date Received: 08/18/11 10:35

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

### **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

<u> Analysis Method: EPA 8260B</u>
------------------------------------

Batch:	T024869

Benzene	8.8 ug/L	0.50	1	08/22/11	was	08/23/11	was	
Toluene	55000 ug/L	250	500	08/22/11	was	08/22/11	was	
Ethylbenzene	2600 ug/L	25	50	08/19/11	was	08/19/11	was	
m,p-Xylene	10000 ug/L	50	50	08/19/11	was	08/19/11	was	Ν
o-Xylene	2700 ug/L	25	50	08/19/11	was	08/19/11	was	Ν
Xylenes, total	13000 ug/L	75	50	08/19/11	was	08/19/11	was	
Surrogates:								
1,2-Dichloroethane-d4	107 %	68-133	1	08/22/11	was	08/23/11	was	
1,2-Dichloroethane-d4	103 %	68-133	50	08/19/11	was	08/19/11	was	
1,2-Dichloroethane-d4	124 %	68-133	500	08/22/11	was	08/22/11	was	
Toluene-d8	92 %	75-120	1	08/22/11	was	08/23/11	was	
Toluene-d8	82 %	75-120	50	08/19/11	was	08/19/11	was	
Toluene-d8	85 %	75-120	500	08/22/11	was	08/22/11	was	

### SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

### Analysis Method: EPA 8270C

Batch: T024793

Bis(2-ethylhexyl)phthalate	1.4 ug/L	0.95	1	08/22/11	kb	08/22/11	gmr	
Surrogates:								
Nitrobenzene-d5	69 %	36-103	1	08/22/11	kb	08/22/11	gmr	
2-Fluorobiphenyl	75 %	36-119	1	08/22/11	kb	08/22/11	gmr	
Terphenyl-d14	75 %	37-109	1	08/22/11	kb	08/22/11	gmr	

### METALS, TOTAL

### Analysis Method: EPA 6010B

Batch: T024879

Phosphorus 0.25 mg/L 0.050 1 08/25/11 ns 08/25/11 jlm

### **CERTIFICATE OF ANALYSIS**

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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Frace ID: T11H198-16 Sample ID: MW-19-5R		Date Collected: Date Received:		08/17/11 16:4 08/18/11 10:3		Matrix: Ground Water			
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCI
METALS, DISSOLVED									
Analysis Method: EPA 6020									
Batch: T024717									
Lead	<0.0030 mg/L	0.0030	1	08/18/11	jd	08/25/11	jd		
WET CHEMISTRY									
Analysis Method: EPA 300.0 Rev. 2.1									
Batch: T024742									
Nitrate as N	<0.22 mg/L	0.22	5	08/18/11	bd	08/18/11	bd		
Sulfate as SO4	15 mg/L	2.5	5	08/18/11	bd	08/18/11	bd		
Analysis Method: EPA 350.1 Rev. 2.0									
Batch: T024768									
Ammonia as N	0.37 mg/L	0.010	1	08/19/11	da	08/19/11	sm		
Analysis Method: SM 2540 C-97									
Batch: T024777									
Total Dissolved Solids	770 mg/L	10	1	08/19/11	as	08/22/11	as		
Analysis Method: SM 2540 D-97									
Batch: T024776									
Total Suspended Solids	36 mg/L	4.0	1	08/19/11	as	08/19/11	sm		
Analysis Method: SM9215B									
Batch: T024747									
Heterotrophic Plate Count	2100 CFU/ml	1.0	1	08/18/11	da	08/20/11	da		
VOLATILE ORGANIC COMPOUNDS BY G	С								
	-								
Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847									
Methane	5700 ug/L	100	100	08/22/11	was	08/22/11	was	N	



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-17 Sample ID: MW-30s		Date Collected: Date Received:		08/17/11 10:44 08/18/11 10:35		Matrix: Ground Water			
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
OLATILE ORGANIC COMPOUND	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024869									
Benzene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
Toluene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
Ethylbenzene	2.1 ug/L	0.50	1	08/22/11	was	08/23/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/22/11	was	08/23/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/22/11	was	08/23/11	was		
Surrogates:									
1,2-Dichloroethane-d4	113 %	68-133	1	08/22/11	was	08/23/11	was		
Toluene-d8	77 %	75-120	1	08/22/11	was	08/23/11	was		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate	940 ug/L	9.5	10	08/22/11	kb	08/22/11	gmr		
Surrogates:	-						_		
Nitrobenzene-d5	* %	36-103	10	08/22/11	kb	08/22/11	gmr	302	
2-Fluorobiphenyl	58 %	36-119	10	08/22/11	kb	08/22/11	gmr		
Terphenyl-d14	66 %	37-109	10	08/22/11	kb	08/22/11	gmr		
	66 %	37-109	10	08/22/11	kb	08/22/11	gmr		
METALS, TOTAL	66 %	37-109	10	08/22/11	kb	08/22/11	gmr		
METALS, TOTAL Analysis Method: EPA 6010B	66 %	37-109	10	08/22/11	kb	08/22/11	gmr		
METALS, TOTAL <u>Analysis Method: EPA 6010B</u> Batch: T024879									
METALS, TOTAL Analysis Method: EPA 6010B	66 % 0.24 mg/L	37-109 0.050	10	08/22/11 08/25/11	kb ns	08/22/11 08/25/11	gmr		
METALS, TOTAL <u>Analysis Method: EPA 6010B</u> Batch: T024879  Phosphorus									
METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024879  Phosphorus  METALS, DISSOLVED									
METALS, TOTAL <u>Analysis Method: EPA 6010B</u> Batch: T024879									

## **CERTIFICATE OF ANALYSIS**

<0.0030 mg/L

0.0030

08/18/11

08/25/11

Lead



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-17 Date Collected: 08/17/11 10:44 Matrix: Ground Water Sample ID: MW-30s Date Received: 08/18/11 10:35 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024742 Nitrate as N <0.22 mg/L 5 08/18/11 bd 08/18/11 bd 0.22 Sulfate as SO4 <2.5 mg/L 2.5 5 08/18/11 bd 08/18/11 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024768 Ammonia as N 0.96 mg/L 08/19/11 da 08/19/11 0.010 sm Analysis Method: SM 2540 C-97 Batch: T024777 **Total Dissolved Solids** 360 mg/L 08/19/11 as 08/22/11 10 Analysis Method: SM 2540 D-97 Batch: T024776 **Total Suspended Solids** 66 mg/L 1 08/19/11 as 08/19/11 sm 4.0 Analysis Method: SM9215B Batch: T024747 **Heterotrophic Plate Count** 300000 CFU/ml 08/18/11 1.0 da 08/20/11 da **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847

### **CERTIFICATE OF ANALYSIS**

2700 ug/L

100

100

08/22/11

was

08/22/11

was

Ν

Methane



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Lead

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-18 Sample ID: MW-30i			Date Collected: Date Received:		08/17/11 12:19 08/18/11 10:35		Matrix: Ground Water		
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC
VOLATILE ORGANIC COMPOUNDS	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024786									
Benzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
Toluene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/18/11	was	08/18/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/18/11	was	08/18/11	was		
Surrogates:									
1,2-Dichloroethane-d4	124 %	68-133	1	08/18/11	was	08/18/11	was		
Toluene-d8	84 %	75-120	1	08/18/11	was	08/18/11	was		
Analysis Method: EPA 8270C  Batch: T024793	4.5.000	4.0	4	08/22/11	l.h	08/22/11			
Bis(2-ethylhexyl)phthalate	1.5 ug/L	1.0	1	00/22/11	kb	00/22/11	gmr		
Surrogates: Nitrobenzene-d5	57 %	36-103	1	08/22/11	kb	08/22/11	gmr		
2-Fluorobiphenyl	58 %	36-119	1	08/22/11	kb	08/22/11	gmr		
Terphenyl-d14	73 %	37-109	1	08/22/11	kb	08/22/11	gmr		
rospilotiji u i		0. 100	·	33/22/		33.22	9		
METALS, TOTAL									
Analysis Method: EPA 6010B									
Batch: T024879									
Phosphorus	0.34 mg/L	0.050	1	08/25/11	ns	08/25/11	jlm		
Поэрногиз									
·									
·									
METALS, DISSOLVED									

## **CERTIFICATE OF ANALYSIS**

0.0030

08/18/11

08/25/11

<0.0030 mg/L



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-18 Date Collected: 08/17/11 12:19 Matrix: Ground Water Sample ID: MW-30i Date Received: 08/18/11 10:35 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024742 Nitrate as N <0.22 mg/L 5 08/18/11 bd 08/18/11 bd 0.22 Sulfate as SO4 <2.5 mg/L 2.5 5 08/18/11 bd 08/18/11 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024768 Ammonia as N 0.79 mg/L 08/19/11 da 08/19/11 0.010 sm Analysis Method: SM 2540 C-97 Batch: T024777 **Total Dissolved Solids** 380 mg/L 08/19/11 as 08/22/11 10 Analysis Method: SM 2540 D-97 Batch: T024776 **Total Suspended Solids** 28 mg/L 1 08/19/11 as 08/19/11 sm 4.0 Analysis Method: SM9215B Batch: T024747 **Heterotrophic Plate Count** 350 CFU/ml 08/18/11 1.0 da 08/20/11 da **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847

### **CERTIFICATE OF ANALYSIS**

940 ug/L

100

100

08/22/11

was

08/22/11

was

Ν

Methane



fax the science of compliance

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# **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-19  Sample ID: MW-30d			Collected: Received:	08/17/11 14:46 08/18/11 10:35		Matrix: Ground Water				
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC	
VOLATILE ORGANIC COMPOUND	S BY GC-MS									
Analysis Method: EPA 8260B										
Batch: T024786										
Benzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was			
Toluene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was			
Ethylbenzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was			
m,p-Xylene	<1.0 ug/L	1.0	1	08/18/11	was	08/18/11	was	N		
o-Xylene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was	N		
Xylenes, total	<1.5 ug/L	1.5	1	08/18/11	was	08/18/11	was			
Surrogates:										
1,2-Dichloroethane-d4	105 %	68-133	1	08/18/11	was	08/18/11	was			
Toluene-d8	84 %	75-120	1	08/18/11	was	08/18/11	was			
Analysis Method: EPA 8270C  Batch: T024793										
Bis(2-ethylhexyl)phthalate	<0.99 ug/L	0.99	1	08/22/11	kb	08/23/11	gmr			
Surrogates:										
Nitrobenzene-d5	47 %	36-103	1	08/22/11	kb	08/23/11	gmr			
2-Fluorobiphenyl	48 %	36-119	1	08/22/11	kb	08/23/11	gmr			
Terphenyl-d14	55 %	37-109	1	08/22/11	kb	08/23/11	gmr			
METALS, TOTAL										
Analysis Method: EPA 6010B										
<u> </u>										
Batch: T024879  Phosphorus	40.050 mg/l	0.050	1	08/25/11	ns	08/25/11	jlm			
Επουμποιαυ	<0.050 mg/L	0.050	ı	00/23/11	115	00/20/11	Juii			
METALS, DISSOLVED										
Analysis Method: EPA 6020										
Batch: T024717										
Lead	<0.0030 mg/L	0.0030	1	08/18/11	jd	08/25/11	jd			
					-		-			



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-19 Date Collected: 08/17/11 14:46 Matrix: Ground Water

Sample ID: MW-30d Date Received: 08/18/11 10:35

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

### WET CHEMISTRY

Analysis	: Method:	EPA	300.0	Rev.	2.1

Batch:	T024742
litrate a	s N

 Nitrate as N
 0.29 mg/L
 0.22
 5
 08/18/11
 bd
 08/18/11
 bd

 Sulfate as SO4
 8.7 mg/L
 2.5
 5
 08/18/11
 bd
 08/18/11
 bd

#### Analysis Method: EPA 350.1 Rev. 2.0

Batch:	T024768

Ammonia as N 0.098 mg/L 0.010 1 08/19/11 da 08/19/11 sm

## Analysis Method: SM 2540 C-97

Batch: T024777

Total Dissolved Solids 350 mg/L 10 1 08/19/11 as 08/22/11 as

#### Analysis Method: SM 2540 D-97

Batch: T024776

Total Suspended Solids 5.0 mg/L 4.0 1 08/19/11 as 08/19/11 sm

#### Analysis Method: SM9215B

Batch: T024747

Heterotrophic Plate Count 1100 CFU/ml 1.0 1 08/18/11 da 08/20/11 da

## **VOLATILE ORGANIC COMPOUNDS BY GC**

#### Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T024847

Methane 64 ug/L 10 10 08/22/11 was 08/22/11 was N



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Sample ID: MW-28s			Date Collected: Date Received:		08/17/11 15:53 08/18/11 10:35		Matrix: Ground Water		
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
OLATILE ORGANIC COMPOUNDS I	BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024814									
Benzene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
Toluene	0.82 ug/L	0.50	1	08/19/11	was	08/19/11	was		
Ethylbenzene	1.4 ug/L	0.50	1	08/19/11	was	08/19/11	was		
m,p-Xylene	2.7 ug/L	1.0	1	08/19/11	was	08/19/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was	N	
Xylenes, total	2.7 ug/L	1.5	1	08/19/11	was	08/19/11	was		
Surrogates:									
1,2-Dichloroethane-d4	127 %	68-133	1	08/19/11	was	08/19/11	was		
Toluene-d8	83 %	75-120	1	08/19/11	was	08/19/11	was		
Analysis Method: EPA 8270C Batch: T024793									
Bis(2-ethylhexyl)phthalate	650 ug/L	20	20	08/22/11	kb	08/23/11	gmr		
Surrogates:									
Nitrobenzene-d5	* %	36-103	20	08/22/11	kb	08/23/11	gmr	302	
2-Fluorobiphenyl	* %	36-119	20	08/22/11	kb	08/23/11	gmr	302	
Terphenyl-d14	* %	37-109	20	08/22/11	kb	08/23/11	gmr	302	
reipnenyi-u 14						00/20/11	9		
//ETALS, TOTAL						00/20/11	9		
METALS, TOTAL						33,23,11	9		
METALS, TOTAL Analysis Method: EPA 6010B						33,23,11	9		
METALS, TOTAL Analysis Method: EPA 6010B Batch: T024879	0 35 mg/l	0.050	1	08/25/11	ne				
METALS, TOTAL Analysis Method: EPA 6010B	0.35 mg/L	0.050	1	08/25/11	ns	08/25/11	jlm		
IETALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024879  Phosphorus	0.35 mg/L	0.050	1	08/25/11	ns				
IETALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024879  Phosphorus  IETALS, DISSOLVED	0.35 mg/L	0.050	1	08/25/11	ns				
IETALS, TOTAL Analysis Method: EPA 6010B Batch: T024879	0.35 mg/L	0.050	1	08/25/11	ns				



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-20 Date Collected: 08/17/11 15:53 Matrix: Ground Water Sample ID: MW-28s Date Received: 08/18/11 10:35 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024742 Nitrate as N <0.22 mg/L 5 08/18/11 bd 08/18/11 bd 0.22 Sulfate as SO4 <2.5 mg/L 2.5 5 08/18/11 bd 08/18/11 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024768 Ammonia as N 0.24 mg/L 08/19/11 da 08/19/11 0.010 sm Analysis Method: SM 2540 C-97 Batch: T024777 **Total Dissolved Solids** 430 mg/L 08/19/11 as 08/22/11 10 Analysis Method: SM 2540 D-97 Batch: T024776 **Total Suspended Solids** 45 mg/L 1 08/19/11 as 08/19/11 sm 4.0 Analysis Method: SM9215B Batch: T024747 120 CFU/ml **Heterotrophic Plate Count** 08/18/11 1.0 da 08/20/11 da **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847

### **CERTIFICATE OF ANALYSIS**

1100 ug/L

100

100

08/22/11

was

08/22/11

was

Ν

Methane



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-21 Sample ID: MW-28i		Date Collected: Date Received:		08/17/11 17:09 08/18/11 10:35		Matrix:	Ground Water		
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC
VOLATILE ORGANIC COMPOUND	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024786									
Benzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
Toluene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/18/11	was	08/18/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/18/11	was	08/18/11	was		
Surrogates:									
1,2-Dichloroethane-d4	117 %	68-133	1	08/18/11	was	08/18/11	was		
Toluene-d8	85 %	75-120	1	08/18/11	was	08/18/11	was		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate	95 ug/L	0.99	1	08/22/11	kb	08/22/11	gmr		
Surrogates:	00 ug. =	0.00	·				<b>5</b>		
Nitrobenzene-d5	59 %	36-103	1	08/22/11	kb	08/22/11	gmr		
2-Fluorobiphenyl	64 %	36-119	1	08/22/11	kb	08/22/11	gmr		
Terphenyl-d14	72 %	37-109	1	08/22/11	kb	08/22/11	gmr		
METALS, TOTAL									
Analysis Method: EPA 6010B									
-									
Batch: T024879									
Batch: T024879 Phosphorus	0.31 mg/L	0.050	1	08/25/11	ns	08/25/11	jlm		
Phosphorus	0.31 mg/L	0.050	1	08/25/11	ns	08/25/11	Jim		
Phosphorus METALS, DISSOLVED	0.31 mg/L	0.050	1	08/25/11	ns	08/25/11	,im		
	0.31 mg/L	0.050	1	08/25/11	ns	08/25/11	jim		

## **CERTIFICATE OF ANALYSIS**

<0.0030 mg/L

0.0030

08/18/11

08/25/11

Lead



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-21 Date Collected: 08/17/11 17:09 Matrix: Ground Water Sample ID: MW-28i Date Received: 08/18/11 10:35 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024742 Nitrate as N <0.22 mg/L 5 08/18/11 bd 08/18/11 bd 0.22 Sulfate as SO4 <2.5 mg/L 2.5 5 08/18/11 bd 08/18/11 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024768 Ammonia as N 0.40 mg/L 08/19/11 da 08/19/11 0.010 sm Analysis Method: SM 2540 C-97 Batch: T024777 **Total Dissolved Solids** 460 mg/L 08/19/11 as 08/22/11 10 Analysis Method: SM 2540 D-97 Batch: T024776 **Total Suspended Solids** 32 mg/L 1 08/19/11 as 08/19/11 sm 4.0 Analysis Method: SM9215B Batch: T024747 **Heterotrophic Plate Count** 20 CFU/ml 08/18/11 1.0 da 08/20/11 da **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847

### **CERTIFICATE OF ANALYSIS**

1400 ug/L

50

50

08/22/11

was

08/22/11

was

Ν

Methane



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-22 Sample ID: Dup-01		Date Collected: Date Received:		08/17/11 08/18/11 10:35		Matrix: Ground Water			
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC
VOLATILE ORGANIC COMPO	OUNDS BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024786									
Benzene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
Toluene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was		
Ethylbenzene	2.8 ug/L	0.50	1	08/18/11	was	08/18/11	was		
m,p-Xylene	1.0 ug/L	1.0	1	08/18/11	was	08/18/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/18/11	was	08/18/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/18/11	was	08/18/11	was		
Surrogates:									
1,2-Dichloroethane-d4	119 %	68-133	1	08/18/11	was	08/18/11	was		
Toluene-d8	80 %	75-120	1	08/18/11	was	08/18/11	was		
Analysis Method: EPA 8270C  Batch: T024793  Bis(2-ethylhexyl)phthalate	1100 ug/L	9.9	10	08/22/11	kb	08/23/11	gmr		
Surrogates:		0.0					3		
Nitrobenzene-d5	* %	36-103	10	08/22/11	kb	08/23/11	gmr	302	
2-Fluorobiphenyl	54 %	36-119	10	08/22/11	kb	08/23/11	gmr		
Terphenyl-d14	63 %	37-109	10	08/22/11	kb	08/23/11	gmr		
METALS, TOTAL									
Analysis Method: EPA 6010B									
Batch: T024879									
Phosphorus	0.28 mg/L	0.050	1	08/25/11	ns	08/25/11	jlm		
	<del>g</del> -	0.000	·	00.20		33.20.11	<b>,</b>		
METALS, DISSOLVED									
METALS, DISSOLVED  Analysis Method: EPA 6020  Batch: T024717									

## **CERTIFICATE OF ANALYSIS**

<0.0030 mg/L

0.0030

1

08/18/11

jd

08/25/11

jd

Lead



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Methane

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-22 Date Collected: 08/17/11 Matrix: Ground Water Sample ID: Dup-01 Date Received: 08/18/11 10:35 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024742 Nitrate as N <0.22 mg/L 5 08/18/11 bd 08/18/11 bd 0.22 Sulfate as SO4 <2.5 mg/L 2.5 5 08/18/11 bd 08/18/11 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024769 Ammonia as N 0.96 mg/L 08/19/11 da 08/19/11 0.010 sm Analysis Method: SM 2540 C-97 Batch: T024777 **Total Dissolved Solids** 370 mg/L 08/19/11 as 08/22/11 10 Analysis Method: SM 2540 D-97 Batch: T024776 **Total Suspended Solids** 75 mg/L 1 08/19/11 as 08/19/11 sm 4.0 Analysis Method: SM9215B Batch: T024747 08/18/11 08/20/11 Heterotrophic Plate Count > 30000 CFU/ml da da 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847

### **CERTIFICATE OF ANALYSIS**

1000 ug/L

50

50

08/22/11

was

08/23/11

was

Ν



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-23 Date Collected: 08/17/11 Matrix: Ground Water

Sample ID: Dup-02 Date Received: 08/18/11 10:35

82 %

**RESULTS UNITS PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL

### **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

<u>Analysis</u>	Method:	<b>EPA</b>	8260B

Batch: T024786								
Benzene	10 ug/L	0.50	1	08/18/11	was	08/18/11	was	
Toluene	52000 ug/L	250	500	08/22/11	was	08/22/11	was	
Ethylbenzene	2600 ug/L	25	50	08/19/11	was	08/19/11	was	
m,p-Xylene	10000 ug/L	50	50	08/19/11	was	08/19/11	was	Ν
o-Xylene	2700 ug/L	25	50	08/19/11	was	08/19/11	was	Ν
Xylenes, total	13000 ug/L	75	50	08/19/11	was	08/19/11	was	
Surrogates:								
1,2-Dichloroethane-d4	101 %	68-133	1	08/18/11	was	08/18/11	was	
1,2-Dichloroethane-d4	119 %	68-133	50	08/19/11	was	08/19/11	was	
1,2-Dichloroethane-d4	127 %	68-133	500	08/22/11	was	08/22/11	was	
Toluene-d8	96 %	75-120	1	08/18/11	was	08/18/11	was	
Toluene-d8	82 %	75-120	50	08/19/11	was	08/19/11	was	

75-120

500

08/22/11

was

08/22/11

was

### SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

### Analysis Method: EPA 8270C

Batch: T024793

Toluene-d8

Bis(2-ethylhexyl)phthalate	1.1 ug/L	0.99	1	08/22/11	kb	08/22/11	gmr
Surrogates:							
Nitrobenzene-d5	64 %	36-103	1	08/22/11	kb	08/22/11	gmr
2-Fluorobiphenyl	66 %	36-119	1	08/22/11	kb	08/22/11	gmr
Terphenyl-d14	74 %	37-109	1	08/22/11	kb	08/22/11	gmr

## **METALS, TOTAL**

### Analysis Method: EPA 6010B

Batch: T024844

**Phosphorus** 0.23 mg/L 0.050 08/24/11 08/24/11 jlm



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

T11H198-23 Date Collected: 08/17/11 Matrix: Ground Water Trace ID: Sample ID: Dup-02 Date Received: 08/18/11 10:35 **PARAMETERS RESULTS UNITS** RDL DILUTION **PREPARED** BY ANALYZED BY **NOTES** MCL **METALS, DISSOLVED** Analysis Method: EPA 6020 Batch: T024717 Lead 0.0032 mg/L 0.0030 08/18/11 jd 08/25/11 jd **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024742 Nitrate as N 5 08/18/11 <0.22 mg/L 0.22 08/18/11 bd bd Sulfate as SO4 5 08/18/11 08/18/11 18 mg/L 2.5 bd bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024769 08/19/11 08/19/11 Ammonia as N 0.44 mg/L da 0.010 1 sm Analysis Method: SM 2540 C-97 Batch: T024777 **Total Dissolved Solids** 780 mg/L 08/19/11 08/22/11 10 as as Analysis Method: SM 2540 D-97 Batch: T024776 **Total Suspended Solids** 34 mg/L 08/19/11 08/19/11 4.0 as sm Analysis Method: SM9215B Batch: T024747 3600 CFU/ml 08/18/11 08/20/11 **Heterotrophic Plate Count** da da 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847 Methane 6300 ug/L 200 08/22/11 08/23/11 200 was was



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<0.50 ug/L

<1.5 ug/L

129 %

81 %

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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

o-Xylene

Xylenes, total

Surrogates:

Toluene-d8

1,2-Dichloroethane-d4

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-24 Date Collected: 08/08/11 Matrix: Aqueous Sample ID: TB-02 Date Received: 08/18/11 10:35 **RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T024842 08/19/11 Benzene <0.50 ug/L 0.50 1 was 08/19/11 was Toluene 1.3 ug/L 0.50 1 08/19/11 was 08/19/11 was 900a Ethylbenzene 08/19/11 08/19/11 <0.50 ug/L 0.50 1 was was m,p-Xylene <1.0 ug/L 1.0 1 08/19/11 was 08/19/11 was Ν

0.50

1.5

68-133

75-120

08/19/11

08/19/11

08/19/11

08/19/11

was

was

was

was

1

1

1

08/19/11

08/19/11

08/19/11

08/19/11

Ν

was

was

was

was



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## **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-25 Sample ID: DRC-02			Collected: Received:	08/18/11 08:3 08/19/11 10:3		Matrix:	Surface	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
OLATILE ORGANIC COMPOUNDS	BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024841									
Benzene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
Toluene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/22/11	was	08/22/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/22/11	was	08/22/11	was		
Surrogates:									
1,2-Dichloroethane-d4	109 %	68-133	1	08/22/11	was	08/22/11	was		
Toluene-d8	86 %	75-120	1	08/22/11	was	08/22/11	was		
SEMI-VOLATILE ORGANIC COMPO	UNDS BY GC-MS								
Analysis Method: EPA 8270C									
Batch: T024793									
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/22/11	kb	08/23/11	gmr		
Surrogates: Nitrobenzene-d5	57 %	36-103	1	08/22/11	kb	08/23/11	gmr		
2-Fluorobiphenyl	60 %	36-103	1	08/22/11	kb	08/23/11	gmr		



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-26 Date Collected: 08/18/11 08:35 Matrix: Surface Water

Sample ID: SW-D-5			Received:	08/19/11 10:		Matrix. Surface Water				
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL	
VOLATILE ORGANIC COMPOUNDS	S BY GC-MS									
Analysis Method: EPA 8260B										
Batch: T024869										
Benzene	<0.50 ug/L	0.50	1	08/19/11	was	08/23/11	was			
Toluene	<0.50 ug/L	0.50	1	08/19/11	was	08/23/11	was			
Ethylbenzene	<0.50 ug/L	0.50	1	08/19/11	was	08/23/11	was			
m,p-Xylene	<1.0 ug/L	1.0	1	08/19/11	was	08/23/11	was	N		
o-Xylene	<0.50 ug/L	0.50	1	08/19/11	was	08/23/11	was	N		
Xylenes, total	<1.5 ug/L	1.5	1	08/19/11	was	08/23/11	was			
Surrogates:										
1,2-Dichloroethane-d4	110 %	68-133	1	08/19/11	was	08/23/11	was			
Toluene-d8	82 %	75-120	1	08/19/11	was	08/23/11	was			
SEMI-VOLATILE ORGANIC COMPO	DUNDS BY GC-MS									
Analysis Method: EPA 8270C										
Batch: T024793										
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/22/11	kb	08/23/11	gmr			
Surrogates:										
Nitrata anno a de	51 %	00.400		00/00/44	1.1.	00/00/44				

Batcn: 1024/93							
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/22/11	kb	08/23/11	gmr
Surrogates:							
Nitrobenzene-d5	51 %	36-103	1	08/22/11	kb	08/23/11	gmr
2-Fluorobiphenyl	55 %	36-119	1	08/22/11	kb	08/23/11	gmr
Terphenyl-d14	71 %	37-109	1	08/22/11	kb	08/23/11	gmr



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77 %

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## **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Terphenyl-d14

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-27 Sample ID: SW-R-1			Date Collected: Date Received:		08/18/11 08:45 08/19/11 10:32		Matrix: Surface V		
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARE	BY	ANALYZED	BY	NOTES	МС
VOLATILE ORGANIC COMPOUNDS	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024814									
Benzene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
Toluene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/19/11	was	08/19/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/19/11	was	08/19/11	was		
Surrogates:									
1,2-Dichloroethane-d4	120 %	68-133	1	08/19/11	was	08/19/11	was		
Toluene-d8	82 %	75-120	1	08/19/11	was	08/19/11	was		
SEMI-VOLATILE ORGANIC COMPO	DUNDS BY GC-MS								
Analysis Method: EPA 8270C									
Batch: T024793									
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/22/11	kb	08/23/11	gmr		
Surrogates:									
Nitrobenzene-d5	66 %	36-103	1	08/22/11	kb	08/23/11	gmr		
2-Fluorobiphenyl	62 %	36-119	1	08/22/11	kb	08/23/11	gmr		

37-109

08/22/11

08/23/11



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Terphenyl-d14

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-28 Sample ID: SW-R-2			Collected: Received:	08/18/11 08:55 08/19/11 10:32		Matrix: Surface Water			
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
VOLATILE ORGANIC COMPOUNDS	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024814									
Benzene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
Toluene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/19/11	was	08/19/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/19/11	was	08/19/11	was		
Surrogates:									
1,2-Dichloroethane-d4	104 %	68-133	1	08/19/11	was	08/19/11	was		
Toluene-d8	82 %	75-120	1	08/19/11	was	08/19/11	was		
SEMI-VOLATILE ORGANIC COMPO	DUNDS BY GC-MS								
Analysis Method: EPA 8270C									
Batch: T024793									
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/22/11	kb	08/22/11	gmr		
Surrogates:									
Nitrobenzene-d5	58 %	36-103	1	08/22/11	kb	08/22/11	gmr		
2-Fluorobiphenyl	58 %	36-119	1	08/22/11	kb	08/22/11	gmr		

37-109

73 %

08/22/11

kb

08/22/11

gmr



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

2-Fluorobiphenyl

Terphenyl-d14

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-29 Sample ID: SW-R-3		Date Collected: Date Received:		08/18/11 09: <sup>-</sup> 08/19/11 10:	08/18/11 09:10 08/19/11 10:32		Matrix: Surface Water		
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
VOLATILE ORGANIC COMPOUN	DS BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024814									
Benzene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
Toluene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/19/11	was	08/19/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/19/11	was	08/19/11	was		
Surrogates: 1,2-Dichloroethane-d4	107 %	68-133	1	08/19/11	was	08/19/11	was		
Toluene-d8	83 %	75-120	1	08/19/11	was	08/19/11	was		
SEMI-VOLATILE ORGANIC COMI	POUNDS BY GC-MS								
Analysis Method: EPA 8270C  Batch: T024793									
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/22/11	kb	08/23/11	gmr		
Surrogates:	\0.80 \dag{\alpha}	0.90	•	00/LL/11	N.	30/20/11	9		
Nitrobenzene-d5	54 %	36-103	1	08/22/11	kb	08/23/11	gmr		

36-119

37-109

58 %

67 %

1

08/22/11

08/22/11

08/23/11

08/23/11

gmr

gmr

kb

kb



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID:	T11H198-30		Date C	Collected:	08/18/11 09:2	20	Matrix:	Surface	Water	
Sample ID:	SW-R-4		Date R	Received:	08/19/11 10:3	32				
PARAMETER	RS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE (	ORGANIC COMPOUND	S BY GC-MS								
Analysis Me	thod: EPA 8260B									
Batch: 7	T024814									
Benzene		<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
Toluene		<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
Ethylbenz	zene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
m,p-Xylen	ne	<1.0 ug/L	1.0	1	08/19/11	was	08/19/11	was	N	
o-Xylene		<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was	N	
Xylenes, t	total	<1.5 ug/L	1.5	1	08/19/11	was	08/19/11	was		
Surrogate										
1,2-Dich	nloroethane-d4	122 %	68-133	1	08/19/11	was	08/19/11	was		
Toluene	e-d8	84 %	75-120	1	08/19/11	was	08/19/11	was		
SEMI-VOLA	ATILE ORGANIC COMP	DUNDS BY GC-MS								
Analysis Me	ethod: EPA 8270C									
Batch: 1	T024793									

Daton. 1024195							
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/22/11	kb	08/23/11	gmr
Surrogates:							
Nitrobenzene-d5	44 %	36-103	1	08/22/11	kb	08/23/11	gmr
2-Fluorobiphenyl	47 %	36-119	1	08/22/11	kb	08/23/11	gmr
Terphenyl-d14	54 %	37-109	1	08/22/11	kb	08/23/11	gmr



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-31 Date Collected: 08/18/11 09:40 Matrix: Surface Water

Sample ID: SW-D-4 Date Received: 08/19/11 10:32

**RESULTS UNITS** RDL **PARAMETERS** DILUTION PREPARED BY ANALYZED BY **NOTES** MCL

### **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

#### Analysis Method: EPA 8260B

Batch: T024814								
Benzene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was	
Toluene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was	
Ethylbenzene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was	
m,p-Xylene	<1.0 ug/L	1.0	1	08/19/11	was	08/19/11	was	N
o-Xylene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was	N
Xylenes, total	<1.5 ug/L	1.5	1	08/19/11	was	08/19/11	was	
Surrogates:								
1,2-Dichloroethane-d4	110 %	68-133	1	08/19/11	was	08/19/11	was	
Toluene-d8	83 %	75-120	1	08/19/11	was	08/19/11	was	

### SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

## Analysis Method: EPA 8270C

Batch: T024848

Bis(2-ethylhexyl)phthalate	9.1 ug/L	0.95	1	08/24/11	kb	08/24/11	gmr
Surrogates:							
Nitrobenzene-d5	46 %	36-103	1	08/24/11	kb	08/24/11	gmr
2-Fluorobiphenyl	52 %	36-119	1	08/24/11	kb	08/24/11	gmr
Terphenyl-d14	67 %	37-109	1	08/24/11	kb	08/24/11	gmr



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50 %

58 %

71 %

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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Nitrobenzene-d5

2-Fluorobiphenyl

Terphenyl-d14

Client Project ID: LEC / 004048.0000.0000

Trace ID:         T11H198-32           Sample ID:         SW-R-6			Collected: Received:	08/18/11 10:0 08/19/11 10:0		Matrix:	Surface	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE ORGANIC COMPOUNDS	BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024814									
Benzene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
Toluene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/19/11	was	08/19/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/19/11	was	08/19/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/19/11	was	08/19/11	was		
Surrogates:	405.07								
1,2-Dichloroethane-d4	125 %	68-133	1	08/19/11	was	08/19/11	was		
Toluene-d8	83 %	75-120	1	08/19/11	was	08/19/11	was		
SEMI-VOLATILE ORGANIC COMPO	DUNDS BY GC-MS								
Analysis Method: EPA 8270C									
Batch: T024848									
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/24/11	kb	08/24/11	gmr		
Surrogates:									

36-103

36-119

37-109

1

1

08/24/11

08/24/11

08/24/11

08/24/11

08/24/11

08/24/11

gmr

gmr

gmr

kb

kb

kb



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-33 Date Collected: 08/18/11 10:20 Matrix: Surface Water

Sample ID: SW-D-3 Date Received: 08/19/11 10:32

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

### **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

Anal	/cic	Method:	FΡΔ	8260B
Allan	1515	wellioa.	EPA	020UD

Batch: T024841									
Benzene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
Toluene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/22/11	was	08/22/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/22/11	was	08/22/11	was		
Surrogates:									
1,2-Dichloroethane-d4	125 %	68-133	1	08/22/11	was	08/22/11	was		
Toluene-d8	81 %	75-120	1	08/22/11	was	08/22/11	was		

### SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

## Analysis Method: EPA 8270C

Batch: T024848

Bis(2-ethylhexyl)phthalate	5.4 ug/L	0.95	1	08/24/11	kb	08/24/11	gmr
Surrogates:							
Nitrobenzene-d5	49 %	36-103	1	08/24/11	kb	08/24/11	gmr
2-Fluorobiphenyl	56 %	36-119	1	08/24/11	kb	08/24/11	gmr
Terphenyl-d14	67 %	37-109	1	08/24/11	kb	08/24/11	gmr



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-34 Date Collected: 08/18/11 10:30 Matrix: Surface Water

Sample ID: SW-D-2 Date Received: 08/19/11 10:32

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

### **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

#### Analysis Method: EPA 8260B

Batch: T024841									
Benzene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
Toluene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/22/11	was	08/22/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/22/11	was	08/22/11	was		
Surrogates:									
1,2-Dichloroethane-d4	106 %	68-133	1	08/22/11	was	08/22/11	was		
Toluene-d8	83 %	75-120	1	08/22/11	was	08/22/11	was		

### SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

## Analysis Method: EPA 8270C

Batch: T024848

Bis(2-ethylhexyl)phthalate	8.2 ug/L	0.95	1	08/24/11	kb	08/24/11	gmr
Surrogates:							
Nitrobenzene-d5	47 %	36-103	1	08/24/11	kb	08/24/11	gmr
2-Fluorobiphenyl	57 %	36-119	1	08/24/11	kb	08/24/11	gmr
Terphenyl-d14	75 %	37-109	1	08/24/11	kb	08/24/11	gmr

### **CERTIFICATE OF ANALYSIS**

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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-35 Date Collected: 08/18/11 10:40 Matrix: Surface Water

Sample ID: SW-D-1 Date Received: 08/19/11 10:32

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

### **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

#### Analysis Method: EPA 8260B

Batch: T024841									
Benzene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
Toluene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/22/11	was	08/22/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/22/11	was	08/22/11	was		
Surrogates:									
1,2-Dichloroethane-d4	107 %	68-133	1	08/22/11	was	08/22/11	was		
Toluene-d8	84 %	75-120	1	08/22/11	was	08/22/11	was		

### SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

## Analysis Method: EPA 8270C

Batch: T024848

Bis(2-ethylhexyl)phthalate	5.9 ug/L	0.95	1	08/24/11	kb	08/24/11	gmr
Surrogates:							
Nitrobenzene-d5	49 %	36-103	1	08/24/11	kb	08/24/11	gmr
2-Fluorobiphenyl	55 %	36-119	1	08/24/11	kb	08/24/11	gmr
Terphenyl-d14	65 %	37-109	1	08/24/11	kb	08/24/11	gmr



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-36 Date Collected: 08/18/11 Matrix: Surface Water

Sample ID: Dup-03 Date Received: 08/19/11 10:32

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

### **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

### Analysis Method: EPA 8260B

Batch: T024841									
Benzene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
Toluene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/22/11	was	08/22/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/22/11	was	08/22/11	was		
Surrogates:									
1,2-Dichloroethane-d4	108 %	68-133	1	08/22/11	was	08/22/11	was		
Toluene-d8	83 %	75-120	1	08/22/11	was	08/22/11	was		

### SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

## Analysis Method: EPA 8270C

Batch: T024848

Bis(2-ethylhexyl)phthalate	9.7 ug/L	0.95	1	08/24/11	kb	08/24/11	gmr
Surrogates:							
Nitrobenzene-d5	50 %	36-103	1	08/24/11	kb	08/24/11	gmr
2-Fluorobiphenyl	55 %	36-119	1	08/24/11	kb	08/24/11	gmr
Terphenyl-d14	67 %	37-109	1	08/24/11	kb	08/24/11	gmr



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-37 Sample ID: MW-34S			Collected: Received:	08/18/11 09:0 08/19/11 10:3		Matrix:	Ground	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC
OLATILE ORGANIC COMPOUND	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024841									
Benzene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
Toluene	<0.50 ug/L	0.50	1	08/22/11	was	08/22/11	was		
Ethylbenzene	19 ug/L	0.50	1	08/22/11	was	08/22/11	was		
m,p-Xylene	8.4 ug/L	1.0	1	08/22/11	was	08/22/11	was	N	
o-Xylene	3.4 ug/L	0.50	1	08/22/11	was	08/22/11	was	N	
Xylenes, total	12 ug/L	1.5	1	08/22/11	was	08/22/11	was		
Surrogates:									
1,2-Dichloroethane-d4	123 %	68-133	1	08/22/11	was	08/22/11	was		
Toluene-d8	82 %	75-120	1	08/22/11	was	08/22/11	was		
Analysis Method: EPA 8270C  Batch: T024848	25		1	08/24/11	LL	00/04/44			
Bis(2-ethylhexyl)phthalate	35 ug/L	0.99	1	00/24/11	kb	08/24/11	gmr		
Surrogates: Nitrobenzene-d5	40 %	36-103	1	08/24/11	kb	08/24/11	gmr		
2-Fluorobiphenyl	47 %	36-119	1	08/24/11	kb	08/24/11	gmr		
Terphenyl-d14	54 %	37-109	1	08/24/11	kb	08/24/11	gmr		
, or priority of the		000	·	00/2		33/2	9		
METALS, TOTAL									
METALS, TOTAL  Analysis Method: EPA 6010B									
Analysis Method: EPA 6010B	0.060 mg/L	0.050	1	08/24/11	ns	08/24/11	jlm		
Analysis Method: EPA 6010B Batch: T024844 Phosphorus	0.060 mg/L	0.050	1	08/24/11	ns	08/24/11	jlm		
Analysis Method: EPA 6010B  Batch: T024844  Phosphorus  METALS, DISSOLVED	0.060 mg/L	0.050	1	08/24/11	ns	08/24/11	jlm		
Batch: T024844	0.060 mg/L	0.050	1	08/24/11	ns	08/24/11	jlm		

## **CERTIFICATE OF ANALYSIS**

<0.0030 mg/L

0.0030

1

08/19/11

jd

08/25/11

jd

Lead



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-37 Date Collected: 08/18/11 09:08 Matrix: Ground Water Sample ID: MW-34S Date Received: 08/19/11 10:32 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024782 Nitrate as N <0.22 mg/L 5 08/19/11 bd 08/19/11 bd 0.22 Sulfate as SO4 100 mg/L 2.5 5 08/19/11 bd 08/19/11 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024915 Ammonia as N 0.16 mg/L 0.010 08/26/11 08/26/11 205 Analysis Method: SM 2540 C-97 Batch: T024777 **Total Dissolved Solids** 580 mg/L 10 1 08/19/11 as 08/22/11 as Analysis Method: SM 2540 D-97 Batch: T024776 **Total Suspended Solids** 22 mg/L 4.0 1 08/19/11 as 08/19/11 sm Analysis Method: SM9215B Batch: T024781 **Heterotrophic Plate Count** 40 CFU/ml 08/19/11 08/21/11 da 1.0 sm **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH

100

08/22/11

was

08/23/11

Ν

was

### **CERTIFICATE OF ANALYSIS**

800 ug/L

100

Batch: T024847

Methane



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-38 Date Collected: 08/18/11 09:28 Matrix: Ground Water

Sample ID: MW-35S Date Received: 08/19/11 10:32

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

### **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

В
Į

Batch: T024841
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Benzene	3.5 ug/L	0.50	1	08/22/11	was	08/22/11	was	
Toluene	17 ug/L	0.50	1	08/22/11	was	08/22/11	was	
Ethylbenzene	9700 ug/L	50	100	08/22/11	was	08/23/11	was	
m,p-Xylene	40000 ug/L	100	100	08/22/11	was	08/23/11	was	N
o-Xylene	14000 ug/L	50	100	08/22/11	was	08/23/11	was	Ν
Xylenes, total	54000 ug/L	150	100	08/22/11	was	08/23/11	was	
Surrogates:								
1,2-Dichloroethane-d4	108 %	68-133	1	08/22/11	was	08/22/11	was	
1,2-Dichloroethane-d4	109 %	68-133	100	08/22/11	was	08/23/11	was	
Toluene-d8	86 %	75-120	1	08/22/11	was	08/22/11	was	
Toluene-d8	83 %	75-120	100	08/22/11	was	08/23/11	was	

### SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

### Analysis Method: EPA 8270C

Batch: T024848

Bis(2-ethylhexyl)phthalate		3000 ug/L	240	250	08/24/11	kb	08/24/11	gmr	
Surrogates:									
Nitrobenzene-d5	*	%	36-103	250	08/24/11	kb	08/24/11	gmr	302
2-Fluorobiphenyl	*	%	36-119	250	08/24/11	kb	08/24/11	gmr	302
Terphenyl-d14	*	%	37-109	250	08/24/11	kb	08/24/11	gmr	302

## **METALS, TOTAL**

#### Analysis Method: EPA 6010B

Batch: T024844

Phosphorus 0.15 mg/L 0.050 1 08/24/11 ns 08/24/11 jlm



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Frace ID: T11H198-38 Sample ID: MW-35S			Collected: Received:	08/18/11 09:2 08/19/11 10:3		Matrix: Ground Water			
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCI
METALS, DISSOLVED									
Analysis Method: EPA 6020									
Batch: T024756									
Lead	<0.0030 mg/L	0.0030	1	08/19/11	jd	08/25/11	jd		
NET CHEMISTRY									
Analysis Method: EPA 300.0 Rev. 2.1									
Batch: T024782									
Nitrate as N	<0.22 mg/L	0.22	5	08/19/11	bd	08/19/11	bd		
Sulfate as SO4	3.6 mg/L	2.5	5	08/19/11	bd	08/19/11	bd		
Analysis Method: EPA 350.1 Rev. 2.0									
Batch: T024915									
Ammonia as N	0.40 mg/L	0.050	5	08/26/11	sm	08/26/11	sm		
Analysis Method: SM 2540 C-97									
Batch: T024777									
Total Dissolved Solids	550 mg/L	10	1	08/19/11	as	08/22/11	as		
Analysis Method: SM 2540 D-97									
Batch: T024776									
Total Suspended Solids	48 mg/L	4.0	1	08/19/11	as	08/19/11	sm		
Analysis Method: SM9215B									
Batch: T024781									
Heterotrophic Plate Count	440 CFU/mI	1.0	1	08/19/11	da	08/21/11	sm		
/OLATILE ORGANIC COMPOUNDS BY GC									
Analysis Method: RSK-175(MOD) / ISOTECH									
Batch: T024847									
Methane	12000 ug/L	200	200	08/22/11	was	08/23/11	was	N	



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-39 Date Collected: 08/18/11 09:59 Matrix: Ground Water

Sample ID: MW-32S Date Received: 08/19/11 10:32

82 %

**RESULTS UNITS PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL

### **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

#### Analysis Method: EPA 8260B

Batch: T024841								
Benzene	2.1 ug/L	0.50	1	08/22/11	was	08/22/11	was	
Toluene	0.78 ug/L	0.50	1	08/22/11	was	08/22/11	was	
Ethylbenzene	1600 ug/L	50	100	08/22/11	was	08/23/11	was	
m,p-Xylene	4400 ug/L	100	100	08/22/11	was	08/23/11	was	Ν
o-Xylene	240 ug/L	50	100	08/22/11	was	08/23/11	was	Ν
Xylenes, total	4600 ug/L	150	100	08/22/11	was	08/23/11	was	
Surrogates:								
1,2-Dichloroethane-d4	126 %	68-133	1	08/22/11	was	08/22/11	was	
1,2-Dichloroethane-d4	111 %	68-133	100	08/22/11	was	08/23/11	was	
Toluene-d8	82 %	75-120	1	08/22/11	was	08/22/11	was	

75-120

08/22/11

was

100

08/23/11

was

# SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

### Analysis Method: EPA 8270C

Batch: T024848

Toluene-d8

Bis(2-ethylhexyl)phthalate		4200 ug/L	250	250	08/24/11	kb	08/24/11	gmr	
Surrogates:									
Nitrobenzene-d5	*	%	36-103	250	08/24/11	kb	08/24/11	gmr	302
2-Fluorobiphenyl	*	%	36-119	250	08/24/11	kb	08/24/11	gmr	302
Terphenyl-d14	*	%	37-109	250	08/24/11	kb	08/24/11	gmr	302

### **METALS, TOTAL**

#### Analysis Method: EPA 6010B

Batch: T024844

**Phosphorus** 0.29 mg/L 0.050 08/24/11 08/24/11 jlm



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Frace ID: T11H198-39 Sample ID: MW-32S			Collected: Received:	08/18/11 09:5 08/19/11 10:3		Matrix: Ground Water			
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCI
METALS, DISSOLVED									
Analysis Method: EPA 6020									
Batch: T024756									
Lead	<0.0030 mg/L	0.0030	1	08/19/11	jd	08/25/11	jd		
NET CHEMISTRY									
Analysis Method: EPA 300.0 Rev. 2.1									
Batch: T024782									
Nitrate as N	<0.22 mg/L	0.22	5	08/19/11	bd	08/19/11	bd		
Sulfate as SO4	70 mg/L	2.5	5	08/19/11	bd	08/19/11	bd		
Analysis Method: EPA 350.1 Rev. 2.0									
Batch: T024915									
Ammonia as N	2.1 mg/L	0.050	5	08/26/11	sm	08/26/11	sm		
Analysis Method: SM 2540 C-97									
Batch: T024777									
Total Dissolved Solids	720 mg/L	10	1	08/19/11	as	08/22/11	as		
Analysis Method: SM 2540 D-97									
Batch: T024776									
Total Suspended Solids	30 mg/L	4.0	1	08/19/11	as	08/19/11	sm		
Analysis Method: SM9215B									
Batch: T024781									
Heterotrophic Plate Count	140000 CFU/mI	1.0	1	08/19/11	da	08/21/11	sm		
/OLATILE ORGANIC COMPOUNDS BY GC									
Analysis Method: RSK-175(MOD) / ISOTECH									
Batch: T024847									
Methane	6800 ug/L	400	400	08/22/11	was	08/23/11	was	N	



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08/22/11

08/22/11

N N

#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-40 Date Collected: 08/18/11 10:24 Matrix: Ground Water

Sample ID: MW-31S Date Received: 08/19/11 10:32

2.3 ug/L

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

### **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

Analy	eie.	Method:	· FPA	8260B
Allalv	313	welliou.	. EFA	02000

Batch:	T024841
Benzene	

9.9 ug/L	0.50	1	08/22/11	was	08/22/11	was	
2600 ug/L	50	100	08/22/11	was	08/23/11	was	
10000 ug/L	100	100	08/22/11	was	08/23/11	was	١
2800 ug/L	50	100	08/22/11	was	08/23/11	was	1
13000 ug/L	150	100	08/22/11	was	08/23/11	was	
105 %	68-133	1	08/22/11	was	08/22/11	was	
127 %	68-133	100	08/22/11	was	08/23/11	was	
86 %	75-120	1	08/22/11	was	08/22/11	was	
82 %	75-120	100	08/22/11	was	08/23/11	was	
	2600 ug/L 10000 ug/L 2800 ug/L 13000 ug/L 105 % 127 % 86 %	2600 ug/L 50 10000 ug/L 100 2800 ug/L 50 13000 ug/L 150  105 % 68-133 127 % 68-133 86 % 75-120	2600 ug/L 50 100 10000 ug/L 100 100 2800 ug/L 50 100 13000 ug/L 150 100  105 % 68-133 1 127 % 68-133 100 86 % 75-120 1	2600 ug/L 50 100 08/22/11 10000 ug/L 100 100 08/22/11 2800 ug/L 50 100 08/22/11 13000 ug/L 150 100 08/22/11  105 % 68-133 1 08/22/11 127 % 68-133 100 08/22/11 86 % 75-120 1 08/22/11	2600 ug/L 50 100 08/22/11 was 10000 ug/L 100 100 08/22/11 was 2800 ug/L 50 100 08/22/11 was 13000 ug/L 150 100 08/22/11 was 105 % 68-133 1 08/22/11 was 127 % 68-133 100 08/22/11 was 86 % 75-120 1 08/22/11 was	2600 ug/L 50 100 08/22/11 was 08/23/11 10000 ug/L 100 100 08/22/11 was 08/23/11 2800 ug/L 50 100 08/22/11 was 08/23/11 13000 ug/L 150 100 08/22/11 was 08/23/11 13000 ug/L 150 100 08/22/11 was 08/23/11 127 % 68-133 1 08/22/11 was 08/23/11 127 % 68-133 100 08/22/11 was 08/23/11 86 % 75-120 1 08/22/11 was 08/22/11	2600 ug/L 50 100 08/22/11 was 08/23/11 was 10000 ug/L 100 100 08/22/11 was 08/23/11 was 2800 ug/L 50 100 08/22/11 was 08/23/11 was 13000 ug/L 150 100 08/22/11 was 08/23/11 was 13000 ug/L 150 100 08/22/11 was 08/23/11 was 105 % 68-133 1 08/22/11 was 08/23/11 was 127 % 68-133 100 08/22/11 was 08/23/11 was 86 % 75-120 1 08/22/11 was 08/22/11 was 08/23/11 was

0.50

### SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

### Analysis Method: EPA 8270C

Batch: T024848

Bis(2-ethylhexyl)phthalate		1700 ug/L	250	250	08/24/11	kb	08/24/11	gmr	
Surrogates:									
Nitrobenzene-d5	*	%	36-103	250	08/24/11	kb	08/24/11	gmr	302
2-Fluorobiphenyl	*	%	36-119	250	08/24/11	kb	08/24/11	gmr	302
Terphenyl-d14	*	%	37-109	250	08/24/11	kb	08/24/11	gmr	302

### **METALS, TOTAL**

#### Analysis Method: EPA 6010B

Batch: T024844

Phosphorus 0.21 mg/L 0.050 1 08/24/11 ns 08/24/11 jlm



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-40 Sample ID: MW-31S			Collected: Received:	08/18/11 10:2 08/19/11 10:3		Matrix: Ground Water			
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCI
METALS, DISSOLVED									
Analysis Method: EPA 6020									
Batch: T024756									
Lead	<0.0030 mg/L	0.0030	1	08/19/11	jd	08/25/11	jd		
NET CHEMISTRY									
Analysis Method: EPA 300.0 Rev. 2.1									
Batch: T024782									
Nitrate as N	<0.22 mg/L	0.22	5	08/19/11	bd	08/19/11	bd		
Sulfate as SO4	58 mg/L	2.5	5	08/19/11	bd	08/19/11	bd		
Analysis Method: EPA 350.1 Rev. 2.0									
Batch: T024915									
Ammonia as N	8.2 mg/L	0.050	5	08/26/11	sm	08/26/11	sm		
Analysis Method: SM 2540 C-97									
Batch: T024820									
Total Dissolved Solids	560 mg/L	10	1	08/22/11	as	08/23/11	as		
Analysis Method: SM 2540 D-97									
Batch: T024819									
Total Suspended Solids	<4.0 mg/L	4.0	1	08/22/11	as	08/23/11	as		
Analysis Method: SM9215B									
Batch: T024781									
Heterotrophic Plate Count	66 CFU/mI	1.0	1	08/19/11	da	08/21/11	sm		
/OLATILE ORGANIC COMPOUNDS BY (	GC								
Analysis Method: RSK-175(MOD) / ISOTECH									
Batch: T024847									
Methane	8000 ug/L	400	400	08/22/11	was	08/23/11	was	N	



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## **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Lead

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-41 Sample ID: MW-33S			Collected: Received:	08/18/11 10:5 08/19/11 10:3		Matrix:	Ground	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC
VOLATILE ORGANIC COMPOUND	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024869									
Benzene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
Toluene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/22/11	was	08/23/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/22/11	was	08/23/11	was		
Surrogates:									
1,2-Dichloroethane-d4	114 %	68-133	1	08/22/11	was	08/23/11	was		
Toluene-d8	80 %	75-120	1	08/22/11	was	08/23/11	was		
Analysis Method: EPA 8270C  Batch: T024848	0500		0.50	00/04/44		00/04/44			
Bis(2-ethylhexyl)phthalate	2500 ug/L	250	250	08/24/11	kb	08/24/11	gmr		
Surrogates: Nitrobenzene-d5	* %	36-103	250	08/24/11	kb	08/24/11	gmr	302	
2-Fluorobiphenyl	* %	36-119	250	08/24/11	kb	08/24/11	gmr	302	
Terphenyl-d14	* %	37-109	250	08/24/11	kb	08/24/11	gmr	302	
13.p.16.1,7. d. 1		0. 100	200	33/2		33/2	9		
METALS, TOTAL									
Analysis Method: EPA 6010B									
Batch: T024844									
Daton. 1027077				00/04/44		00/04/44	jlm		
Phosphorus	0.22 mg/L	0.050	1	08/24/11	ns	08/24/11	Jim		
Phosphorus	0.22 mg/L	0.050	1	08/24/11	ns	08/24/11	Jim		
Phosphorus METALS, DISSOLVED	0.22 mg/L	0.050	1	08/24/11	ns	08/24/11	JIIII		
	0.22 mg/L	0.050	1	08/24/11	ns	08/24/11	jimi		

# **CERTIFICATE OF ANALYSIS**

<0.0030 mg/L

0.0030

08/19/11

08/25/11



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Methane

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-41 Date Collected: 08/18/11 10:56 Matrix: Ground Water Sample ID: MW-33S Date Received: 08/19/11 10:32 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024782 Nitrate as N <0.22 mg/L 5 08/19/11 bd 08/19/11 bd 0.22 Sulfate as SO4 29 mg/L 2.5 5 08/19/11 bd 08/19/11 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024915 Ammonia as N 2.8 mg/L 0.010 08/26/11 08/26/11 sm Analysis Method: SM 2540 C-97 Batch: T024820 **Total Dissolved Solids** 580 mg/L 10 1 08/22/11 as 08/23/11 as Analysis Method: SM 2540 D-97 Batch: T024819 **Total Suspended Solids** 100 mg/L 4.7 1.176471 08/22/11 as 08/23/11 as Analysis Method: SM9215B Batch: T024781 **Heterotrophic Plate Count** 560 CFU/ml 08/19/11 08/21/11 da 1.0 sm **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847

### **CERTIFICATE OF ANALYSIS**

1200 ug/L

100

100

08/22/11

was

08/23/11

Ν

was



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-42 Sample ID: RB-01			Collected: Received:	08/18/11 13: 08/19/11 10:		Matrix:	Aqueous	S	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
OLATILE ORGANIC COMPOUNDS	BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024869									
Benzene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
Toluene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/22/11	was	08/23/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/22/11	was	08/23/11	was		
Surrogates:									
1,2-Dichloroethane-d4	127 %	68-133	1	08/22/11	was	08/23/11	was		
Toluene-d8	80 %	75-120	1	08/22/11	was	08/23/11	was		
SEMI-VOLATILE ORGANIC COMPO	OUNDS BY GC-MS								
Analysis Method: EPA 8270C									
Batch: T024848									
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/24/11	kb	08/24/11	gmr		
Surrogates: Nitrobenzene-d5	47 %	36-103	1	08/24/11	kb	08/24/11	gmr		
2-Fluorobiphenyl	52 %	36-119	1	08/24/11	kb	08/24/11	gmr		
Terphenyl-d14	65 %	37-109	1	08/24/11	kb	08/24/11	gmr		



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-43 Sample ID: RB-02			Collected: Received:	08/18/11 13:20 08/19/11 10:32		Matrix: Aqueous			
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	) BY	ANALYZED	BY	NOTES	МС
VOLATILE ORGANIC COMPOUNDS	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024869									
Benzene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
Toluene	1.5 ug/L	0.50	1	08/22/11	was	08/23/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
m,p-Xylene	1.2 ug/L	1.0	1	08/22/11	was	08/23/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/22/11	was	08/23/11	was		
Surrogates:									
1,2-Dichloroethane-d4	126 %	68-133	1	08/22/11	was	08/23/11	was		
Toluene-d8	83 %	75-120	1	08/22/11	was	08/23/11	was		
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T024848 Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.05	1		LL				
	~0.95 dg/L	0.95		08/24/11	kb	08/24/11	gmr		
Surrogates:		0.95	ı	08/24/11	KD	08/24/11	gmr		
Surrogates: Nitrobenzene-d5	55 %	36-103	1	08/24/11	kb	08/24/11 08/24/11	gmr		
_	55 % 57 %						J		
Nitrobenzene-d5	55 %	36-103	1	08/24/11	kb	08/24/11	gmr		
Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	55 % 57 %	36-103 36-119	1 1	08/24/11 08/24/11	kb kb	08/24/11 08/24/11	gmr gmr		
Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	55 % 57 %	36-103 36-119	1 1	08/24/11 08/24/11	kb kb	08/24/11 08/24/11	gmr gmr		
Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  //ETALS, TOTAL	55 % 57 %	36-103 36-119	1 1	08/24/11 08/24/11	kb kb	08/24/11 08/24/11	gmr gmr		
Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B	55 % 57 %	36-103 36-119	1 1	08/24/11 08/24/11	kb kb	08/24/11 08/24/11	gmr gmr		
Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  IETALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024844  Phosphorus	55 % 57 % 68 %	36-103 36-119 37-109	1 1 1	08/24/11 08/24/11 08/24/11	kb kb kb	08/24/11 08/24/11 08/24/11	gmr gmr gmr		
Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024844	55 % 57 % 68 %	36-103 36-119 37-109	1 1 1	08/24/11 08/24/11 08/24/11	kb kb kb	08/24/11 08/24/11 08/24/11	gmr gmr gmr		

## **CERTIFICATE OF ANALYSIS**

<0.0030 mg/L

0.0030

08/24/11

ns

08/25/11

jd

Lead



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-43 Date Collected: 08/18/11 13:20 Matrix: Aqueous Sample ID: **RB-02** Date Received: 08/19/11 10:32 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024782 Nitrate as N <0.22 mg/L 5 08/19/11 bd 08/19/11 da 0.22 Sulfate as SO4 <2.5 mg/L 2.5 5 08/19/11 bd 08/19/11 da Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024915 Ammonia as N <0.010 mg/L 08/26/11 08/26/11 sm 0.010 sm Analysis Method: SM 2540 C-97 Batch: T024820 **Total Dissolved Solids** <10 mg/L 1 08/22/11 as 08/23/11 as 10 Analysis Method: SM 2540 D-97 Batch: T024819 **Total Suspended Solids** <4.0 mg/L 08/22/11 as 08/23/11 4.0 Analysis Method: SM9215B Batch: T024781 **Heterotrophic Plate Count** 45 CFU/ml 08/19/11 da 08/21/11 sm 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847

### **CERTIFICATE OF ANALYSIS**

<1.0 ug/L

1.0

08/22/11

was

08/23/11

was

Ν

Methane



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Гrace ID: T11H198-44 Sample ID: RB-03			Collected: Received:	08/18/11 13:3 08/19/11 10:3		Matrix: Aqueous			
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC
OLATILE ORGANIC COMPOUND	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T024869									
Benzene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
Toluene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/22/11	was	08/23/11	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/22/11	was	08/23/11	was		
Surrogates:									
1,2-Dichloroethane-d4	130 %	68-133	1	08/22/11	was	08/23/11	was		
Toluene-d8	79 %	75-120	1	08/22/11	was	08/23/11	was		
SEMI-VOLATILE ORGANIC COMPO	OUNDS BY GC-MS								
Analysis Method: EPA 8270C  Batch: T024848  Bis(2-ethylhexyl)phthalate	OUNDS BY GC-MS <0.95 ug/L	0.95	1	08/24/11	kb	08/24/11	gmr		
Bis(2-ethylhexyl)phthalate  Surrogates:							_		
Analysis Method: EPA 8270C  Batch: T024848  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<0.95 ug/L	36-103	1	08/24/11	kb	08/24/11	gmr		
Analysis Method: EPA 8270C  Batch: T024848  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl	<0.95 ug/L 56 %	36-103 36-119	1	08/24/11 08/24/11	kb kb	08/24/11 08/24/11	gmr gmr		
Analysis Method: EPA 8270C  Batch: T024848  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<0.95 ug/L 56 % 60 %	36-103	1	08/24/11	kb	08/24/11	gmr		
Analysis Method: EPA 8270C  Batch: T024848  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl	<0.95 ug/L 56 % 60 %	36-103 36-119	1	08/24/11 08/24/11	kb kb	08/24/11 08/24/11	gmr gmr		
Analysis Method: EPA 8270C  Batch: T024848  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL	<0.95 ug/L 56 % 60 %	36-103 36-119	1	08/24/11 08/24/11	kb kb	08/24/11 08/24/11	gmr gmr		
Analysis Method: EPA 8270C  Batch: T024848  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14	<0.95 ug/L 56 % 60 %	36-103 36-119	1	08/24/11 08/24/11	kb kb	08/24/11 08/24/11	gmr gmr		
Analysis Method: EPA 8270C  Batch: T024848  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B	<0.95 ug/L 56 % 60 %	36-103 36-119	1	08/24/11 08/24/11	kb kb	08/24/11 08/24/11	gmr gmr		
Analysis Method: EPA 8270C  Batch: T024848  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024844	<0.95 ug/L 56 % 60 % 77 %	36-103 36-119 37-109	1 1 1	08/24/11 08/24/11 08/24/11	kb kb kb	08/24/11 08/24/11 08/24/11	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T024848  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  WETALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024844  Phosphorus	<0.95 ug/L 56 % 60 % 77 %	36-103 36-119 37-109	1 1 1	08/24/11 08/24/11 08/24/11	kb kb kb	08/24/11 08/24/11 08/24/11	gmr gmr gmr		

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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-44 Date Collected: 08/18/11 13:30 Matrix: Aqueous Sample ID: **RB-03** Date Received: 08/19/11 10:32 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024782 Nitrate as N <0.22 mg/L 5 08/19/11 bd 08/19/11 da 0.22 Sulfate as SO4 <2.5 mg/L 2.5 5 08/19/11 bd 08/19/11 da Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024915 Ammonia as N <0.010 mg/L 08/26/11 08/26/11 sm 0.010 sm Analysis Method: SM 2540 C-97 Batch: T024820 **Total Dissolved Solids** <10 mg/L 1 08/22/11 as 08/23/11 as 10 Analysis Method: SM 2540 D-97 Batch: T024819 **Total Suspended Solids** <4.0 mg/L 08/22/11 as 08/23/11 4.0 Analysis Method: SM9215B Batch: T024781 Heterotrophic Plate Count <1.0 CFU/ml 08/19/11 da 08/21/11 sm 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T024847

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<1.0 ug/L

1.0

08/22/11

was

08/23/11

was

Ν

Methane



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-45 Date Collected: 08/18/11 Matrix: Aqueous Sample ID: TB-03 Date Received: 08/19/11 10:32 **RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T024869 Benzene <0.50 ug/L 0.50 1 08/22/11 was 08/23/11 was Toluene <0.50 ug/L 0.50 1 08/22/11 was 08/23/11 was Ethylbenzene 08/23/11 <0.50 ug/L 0.50 1 08/22/11 was was m,p-Xylene <1.0 ug/L 1.0 1 08/22/11 was 08/23/11 was Ν 08/22/11 08/23/11 o-Xylene Ν <0.50 ug/L 0.50 1 was was Xylenes, total <1.5 ug/L 1 08/22/11 08/23/11 1.5 was was Surrogates: 121 % 1,2-Dichloroethane-d4 68-133 08/22/11 was 08/23/11 was 84 % Toluene-d8 75-120 08/22/11 was 08/23/11 was



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### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Lead

Client Project ID: LEC / 004048.0000.0000

PARAMETERS RESULTS UNITS RD DILUTION PREPARED BY ANALYZED BY NOTES MOVOLATILE ORGANIC COMPOUNDS BY GC-MS  Analysis Method: EPA 82808  Bate: 7024869  Benzene <0.50 ug/L 0.50 1 08/22/11 was 08/23/11 was 170 lethen	Trace ID: T11H198-46  Sample ID: MW-27			Collected: Received:	08/18/11 12:5 08/19/11 10:3		Matrix: Ground Water			
### Analysis Method: EPA 82608    Batch: T024869	PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
Benzene	VOLATILE ORGANIC COMPOUNDS	S BY GC-MS								
Benzene	Analysis Method: EPA 8260B									
Toluene	Batch: T024869									
Ethylbenzene	Benzene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
mp-Xylene	Toluene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
O-Xylene	Ethylbenzene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was		
Xylenes, total	m,p-Xylene	<1.0 ug/L	1.0	1	08/22/11	was	08/23/11	was	N	
Surrogates: 1,2-Dichloroethane-d4	o-Xylene	<0.50 ug/L	0.50	1	08/22/11	was	08/23/11	was	N	
1,2-Dichloroethane-d4	Xylenes, total	<1.5 ug/L	1.5	1	08/22/11	was	08/23/11	was		
Toluene-d8 82 % 75-120 1 08/22/11 was 08/23/11 was  SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS  Analysis Method: EPA 8270C  Batch: T024848  Bis(2-ethylhexyl)phthalate 2.4 ug/L 0.98 1 08/24/11 kb 08/24/11 gmr  Surrogates:  Nitrobenzene-d5 59 % 36-103 1 08/24/11 kb 08/24/11 gmr  2-Fluorobiphenyl 62 % 36-119 1 08/24/11 kb 08/24/11 gmr  Terphenyl-d14 70 % 37-109 1 08/24/11 kb 08/24/11 gmr  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024844  Phosphorus <0.050 mg/L 0.050 1 08/24/11 ns 08/24/11 jim	Surrogates:									
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS	1,2-Dichloroethane-d4	* <b>135</b> %	68-133	1	08/22/11	was	08/23/11	was	312	
### Analysis Method: EPA 6020    Analysis Method: EPA 6020   Analysis Method: EPA 6020    Analysis Method: EPA 6020   Analysis Method: EPA 6020   Batch: T024848   Bis(2-ethylhexyl)phthalate	Toluene-d8	82 %	75-120	1	08/22/11	was	08/23/11	was		
Surrogates:         Nitrobenzene-d5       59 %       36-103       1       08/24/11       kb       08/24/11       gmr         2-Fluorobiphenyl       62 %       36-119       1       08/24/11       kb       08/24/11       gmr         Terphenyl-d14       70 %       37-109       1       08/24/11       kb       08/24/11       gmr         WETALS, TOTAL         Analysis Method: EPA 6010B         Batch: T024844         Phosphorus       <0.050 mg/L       0.050       1       08/24/11       ns       08/24/11       jlm         WETALS, DISSOLVED         Analysis Method: EPA 6020	Batch: T024848									
Nitrobenzene-d5 59 % 36-103 1 08/24/11 kb 08/24/11 gmr 2-Fluorobiphenyl 62 % 36-119 1 08/24/11 kb 08/24/11 gmr Terphenyl-d14 70 % 37-109 1 08/24/11 kb 08/24/11 gmr  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024844 Phosphorus <0.050 mg/L 0.050 1 08/24/11 ns 08/24/11 jlm  METALS, DISSOLVED  Analysis Method: EPA 6020		2.4 ug/L	0.98	1	08/24/11	kb	08/24/11	gmr		
2-Fluorobiphenyl 62 % 36-119 1 08/24/11 kb 08/24/11 gmr Terphenyl-d14 70 % 37-109 1 08/24/11 kb 08/24/11 gmr  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024844 Phosphorus <0.050 mg/L 0.050 1 08/24/11 ns 08/24/11 jlm  METALS, DISSOLVED  Analysis Method: EPA 6020	_	59 %	26 102	1	09/24/11	kh	00/24/11	amr		
Terphenyl-d14 70 % 37-109 1 08/24/11 kb 08/24/11 gmr  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024844  Phosphorus <0.050 mg/L 0.050 1 08/24/11 ns 08/24/11 jlm  METALS, DISSOLVED  Analysis Method: EPA 6020								-		
METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T024844  Phosphorus <0.050 mg/L 0.050 1 08/24/11 ns 08/24/11 jlm  METALS, DISSOLVED  Analysis Method: EPA 6020	• •			•				-		
Analysis Method: EPA 6010B         Batch: T024844         Phosphorus       <0.050 mg/L	тегрпепуі-а 14	70 70	37-109	ı	06/24/11	KD	06/24/11	gm		
## Batch: T024844  Phosphorus <0.050 mg/L 0.050 1 08/24/11 ns 08/24/11 jlm  ### METALS, DISSOLVED  ### Analysis Method: EPA 6020	METALS, TOTAL									
## Batch: T024844  Phosphorus <0.050 mg/L 0.050 1 08/24/11 ns 08/24/11 jlm  ### METALS, DISSOLVED  ### Analysis Method: EPA 6020										
Phosphorus         <0.050 mg/L	Analysis Method: EPA 6010B									
Analysis Method: EPA 6020	•									
	Batch: T024844	<0.050 mg/L	0.050	1	08/24/11	ns	08/24/11	jlm		
Batch: T024756	Batch: T024844 Phosphorus	<0.050 mg/L	0.050	1	08/24/11	ns	08/24/11	jlm		
	Batch: T024844 Phosphorus METALS, DISSOLVED	<0.050 mg/L	0.050	1	08/24/11	ns	08/24/11	jlm		

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<0.0030 mg/L

08/19/11

jd

08/25/11

0.0030



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#### **ANALYTICAL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

Trace ID: T11H198-46 Date Collected: 08/18/11 12:58 Matrix: Ground Water Sample ID: MW-27 Date Received: 08/19/11 10:32 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T024782 Nitrate as N 1.4 mg/L 5 08/19/11 08/20/11 900 0.22 bd da Sulfate as SO4 35 mg/L 2.5 5 08/19/11 bd 08/20/11 da Analysis Method: EPA 350.1 Rev. 2.0 Batch: T024915 08/26/11 Ammonia as N <0.010 mg/L 0.010 sm 08/26/11 sm Analysis Method: SM 2540 C-97 Batch: T024820 **Total Dissolved Solids** 570 mg/L 10 1 08/22/11 as 08/23/11 as Analysis Method: SM 2540 D-97 Batch: T024819 **Total Suspended Solids** 41 mg/L 4.0 1 08/22/11 as 08/23/11 as

### **VOLATILE ORGANIC COMPOUNDS BY GC**

### Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T024847

Analysis Method: SM9215B

Batch: T024781

Heterotrophic Plate Count

Methane <1.0 ug/L 1.0 1 08/22/11 was 08/23/11 was N

1.0

08/19/11

da

08/21/11

sm

60 CFU/ml



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### **QUALITY CONTROL RESULTS**

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024847 Analysis Description: Dissolved Gases QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous Analysis Method: RSK-175(MOD) / ISOTECH Samples METHOD BLANK: T024847-BLK1 Blank Reporting Parameter Units Result Notes Limit Methane <1.0 1.0 ug/L METHOD BLANK: T024847-BLK2 Blank Reporting Parameter Units Notes Result Limit Methane ug/L <1.0 1.0 METHOD BLANK: T024847-BLK3 Blank Reporting Parameter Units Notes Result Limit Methane ug/L <1.0 1.0 LABORATORY CONTROL SAMPLE: T024847-BS1 LCS LCS Spike % Rec Parameter % Rec Conc. Result Notes Units Limit Methane ug/L 12.8 10.2 80 70-130 LABORATORY CONTROL SAMPLE: T024847-BS2 LCS LCS Spike % Rec Parameter Conc Result % Rec Notes Units Limit Methane ug/L 12.8 12.9 101 70-130 LABORATORY CONTROL SAMPLE: T024847-BS3 LCS LCS Spike % Rec Parameter Conc. Result % Rec Notes Units Limit Methane ug/L 12.8 10.3 80 70-130 MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024847-MSD2 Original: T11H198-21 MS MSD Original Spike MSD Max MS % Rec RPD Notes Units Parameter Result Conc Result Result % Rec **RPD** % Rec Limit 90 84 8 Methane ug/L 1430 640 2010 1960 70-130 15 Original: T11H198-46 MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024847-MSD3 Original Spike MS MSD Max MSD % Rec MS Units **RPD** RPD Notes Parameter Conc. % Rec Result Result Result % Red Limit



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MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024847-MSD3	Original: <b>T11H198-46</b>
---	-----------------------------

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Methane	ug/L	0.403	12.8	12.5	12.3	95	93	70-130	1	15	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024844 Analysis Description: Phosphorus, Total

QC Batch Method: EPA 3015 Microwave Assisted Analysis Method: EPA 6010B

Digestions for Liquids

#### METHOD BLANK: T024844-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Phosphorus	mg/L	<0.050	0.050	

## LABORATORY CONTROL SAMPLE: T024844-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Phosphorus	ma/L	8.89	9.13	103	80-120	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024879 Analysis Description: Phosphorus, Total

QC Batch Method: EPA 3015 Microwave Assisted Analysis Method: EPA 6010B

Digestions for Liquids

## METHOD BLANK: T024879-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Phosphorus	mg/L	<0.050	0.050	

### LABORATORY CONTROL SAMPLE: T024879-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Phosphorus	mg/L	8.89	8.59	97	80-120	

#### Original: T11H198-21 MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024879-MSD1

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Phosphorus	mg/L	0.305	8.89	8.80	8.85	96	96	75-125	0.5	20	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024717 Analysis Description: Lead, Dissolved QC Batch Method: Analysis Method: EPA 6020



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Parameter	Units	Blank Result	Reporting Limit	Notes
Lead	mg/L	<0.0030	0.0030	

# LABORATORY CONTROL SAMPLE: T024717-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Lead	mg/L	0.250	0.252	101	80-120	

#### Original: T11H198-21 MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024717-MSD1

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Lead	mg/L	0	0.250	0.253	0.253	101	101	75-125	0.1	20	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024756 QC Batch Method:

Analysis Description: Lead, Dissolved Analysis Method: EPA 6020

#### METHOD BLANK: T024756-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Lead	mg/L	<0.0030	0.0030	

## LABORATORY CONTROL SAMPLE: T024756-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Lead	mg/L	0.250	0.252	101	80-120	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024844

QC Batch Method: EPA 3015 Microwave Assisted

Digestions for Liquids

Analysis Description: Lead, Total Analysis Method: EPA 6020

# METHOD BLANK: T024844-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Lead	ma/l	<0.0030	0.0030	

#### LABORATORY CONTROL SAMPLE: T024844-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Lead	mg/L	0.0556	0.0572	103	80-120	

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Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024879

QC Batch Method: EPA 3015 Microwave Assisted

Digestions for Liquids

Analysis Description: Lead, Total Analysis Method: EPA 6020

#### METHOD BLANK: T024879-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Lead	mg/L	<0.0030	0.0030	

#### LABORATORY CONTROL SAMPLE: T024879-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Lead	mg/L	0.0556	0.0592	107	80-120	

#### MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024879-MSD1

					Ū						
		Original	Spike	MS	MSD	MS	MSD	% Rec		Max	Note:
Parameter	Units	Result	Conc.	Result	Result	% Rec	% Rec	Limit	RPD	RPD	Notes
Lead	mg/L	0	0.0556	0.0579	0.0580	104	104	75-125	0.2	20	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024728

QC Batch Method: EPA 3510C Separatory Funnel

Liquid-Liquid Extr.

Analysis Description: Semi-volatiles, TCL list

Analysis Method: EPA 8270C

Original: T11H198-21

# METHOD BLANK: T024728-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<5.0	5.0	
Nitrobenzene-d5 (S)	%	51	36-103	
2-Fluorobiphenyl (S)	%	61	36-119	
Terphenyl-d14 (S)	%	71	37-109	

#### LABORATORY CONTROL SAMPLE: T024728-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	77.9	78	57-107	
Nitrobenzene-d5 (S)	%	100	66.7	67	36-103	
2-Fluorobiphenyl (S)	%	101	75.2	74	36-119	
Terphenyl-d14 (S)	%	105	85.5	81	37-109	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

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QC Batch: T024793

QC Batch Method: EPA 3510C Separatory Funnel

Liquid-Liquid Extr.

Analysis Description: Semi-volatiles, TCL list

Analysis Method: EPA 8270C

#### METHOD BLANK: T024793-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<5.0	5.0	
Nitrobenzene-d5 (S)	%	39	36-103	
2-Fluorobiphenyl (S)	%	46	36-119	
Terphenyl-d14 (S)	%	58	37-109	

#### LABORATORY CONTROL SAMPLE: T024793-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	69.7	70	57-107	
Nitrobenzene-d5 (S)	%	100	62.6	63	36-103	
2-Fluorobiphenyl (S)	%	101	68.6	68	36-119	
Terphenyl-d14 (S)	%	105	73.0	70	37-109	

#### MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024793-MSD1

	_				_						
Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Bis(2-ethylhexyl)phthalate	ug/L	94.7	99.5	152	156	57	62	52-106	8	29	
Nitrobenzene-d5 (S)	%		99.5	61.5	51.5	61	52	36-103			
2-Fluorobiphenyl (S)	%		100	67.9	57.3	67	57	36-119			
Terphenyl-d14 (S)	%		104	73.3	60.1	70	58	37-109			

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024848

QC Batch Method: EPA 3510C Separatory Funnel

Liquid-Liquid Extr.

Analysis Description: Semi-volatiles, TCL list

Analysis Method: EPA 8270C

Original: T11H198-21

#### METHOD BLANK: T024848-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<5.0	5.0	
Nitrobenzene-d5 (S)	%	38	36-103	
2-Fluorobiphenyl (S)	%	40	36-119	
Terphenyl-d14 (S)	%	60	37-109	

#### LABORATORY CONTROL SAMPLE: T024848-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	65.4	65	57-107	
Nitrobenzene-d5 (S)	%	100	59.8	60	36-103	

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#### LABORATORY CONTROL SAMPLE: T024848-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
2-Fluorobiphenyl (S)	%	101	63.1	62	36-119	
Terphenyl-d14 (S)	%	105	73.9	70	37-109	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024751

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Samples

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Analysis Method: EPA 8260B

#### METHOD BLANK: T024751-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	75	68-133	
Toluene-d8 (S)	%	89	75-120	

#### LABORATORY CONTROL SAMPLE: T024751-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	20.7	103	80-120	
Toluene	ug/L	20.0	17.7	88	80-120	
1,2-Dichloroethane-d4 (S)	%	30.0	24.2	81	68-133	
Toluene-d8 (S)	%	30.0	26.5	88	75-120	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024786

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Samples

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Analysis Method: EPA 8260B

#### METHOD BLANK: T024786-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	95	68-133	

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#### METHOD BLANK: T024786-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Toluene-d8 (S)	%	85	75-120	
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	95	68-133	
Toluene-d8 (S)	%	85	75-120	

#### LABORATORY CONTROL SAMPLE: T024786-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	16.2	81	80-120	
Toluene	ug/L	20.0	16.8	84	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	47.8	96	68-133	
Toluene-d8 (S)	%	50.0	42.2	84	75-120	
Benzene	ug/L	20.0	16.2	81	80-120	
Toluene	ug/L	20.0	16.8	84	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	47.8	96	68-133	
Toluene-d8 (S)	%	50.0	42.2	84	75-120	

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024786-MSD1

Original:	T11H198-21
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Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Benzene	ug/L	0	20.0	17.1	16.7	86	84	78-114	2	11	
Toluene	ug/L	0	20.0	18.3	18.1	92	91	77-118	0.9	10	
1,2-Dichloroethane-d4 (S)	%		50.0	59.7	59.4	119	119	68-133			
Toluene-d8 (S)	%		50.0	41.7	43.5	83	87	75-120			
Benzene	ug/L	0	20.0	17.1	16.7	86	84	78-114	2	11	
Toluene	ug/L	0	20.0	18.3	18.1	92	91	77-118	0.9	10	
1,2-Dichloroethane-d4 (S)	%		50.0	59.7	59.4	119	119	68-133			
Toluene-d8 (S)	%		50.0	41.7	43.5	83	87	75-120			

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024814

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Samples

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Analysis Method: EPA 8260B

# METHOD BLANK: T024814-BLK1

		Blank	Reporting	
Parameter	Units	Result	Limit	Notes

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#### METHOD BLANK: T024814-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	130	68-133	
Toluene-d8 (S)	%	82	75-120	

# LABORATORY CONTROL SAMPLE: T024814-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	16.1	80	80-120	
Toluene	ug/L	20.0	18.6	93	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	62.1	124	68-133	
Toluene-d8 (S)	%	50.0	43.7	87	75-120	

## TRIX SPIKE / MATRIX SPIKE DUPI ICATE: T024814-MSD1

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024814-MSD1				Original: <b>T11H198-23RE1</b>							
Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Benzene	ug/L	0	1000	848	814	85	81	78-114	4	11	
Toluene	ug/L	46200	1000	47800	47600	162	146	77-118	10	10	222
1,2-Dichloroethane-d4 (S)	%		50.0	61.4	60.4	123	121	68-133			
Toluene-d8 (S)	%		50.0	42.3	42.7	85	85	75-120			

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024841

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Samples

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Analysis Method: EPA 8260B

# METHOD BLANK: T024841-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	121	68-133	
Toluene-d8 (S)	%	81	75-120	

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#### LABORATORY CONTROL SAMPLE: T024841-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	16.0	80	80-120	
Toluene	ug/L	20.0	16.9	84	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	62.6	125	68-133	
Toluene-d8 (S)	%	50.0	39.7	79	75-120	

#### MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024841-MSD1

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Benzene	ug/L	0	10000	8040	8160	80	82	78-114	2	11	
Toluene	ug/L	52400	10000	67300	65500	149	132	77-118	13	10	222
1,2-Dichloroethane-d4 (S)	%		50.0	64.3	64.6	129	129	68-133			
Toluene-d8 (S)	%		50.0	41.1	41.5	82	83	75-120			

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024842

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Samples

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Analysis Method: EPA 8260B

Original: T11H198-23RE2

#### METHOD BLANK: T024842-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	130	68-133	
Toluene-d8 (S)	%	82	75-120	

## LABORATORY CONTROL SAMPLE: T024842-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	16.1	80	80-120	
Toluene	ug/L	20.0	18.6	93	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	62.1	124	68-133	
Toluene-d8 (S)	%	50.0	43.7	87	75-120	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024869

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Analysis Method: EPA 8260B

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Samples

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#### METHOD BLANK: T024869-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	128	68-133	
Toluene-d8 (S)	%	82	75-120	

#### LABORATORY CONTROL SAMPLE: T024869-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	18.0	90	80-120	
Toluene	ug/L	20.0	19.6	98	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	64.0	128	68-133	
Toluene-d8 (S)	%	50.0	41.2	82	75-120	

#### MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024869-MSD1

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024869-MSD1			Original: <b>T11H198-40RE1</b>								
Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Benzene	ug/L	0	2000	1420	1630	71	81	78-114	14	11	900b
Toluene	ug/L	0	2000	1680	1780	84	89	77-118	6	10	
1,2-Dichloroethane-d4 (S)	%		50.0	56.5	63.0	113	126	68-133			
Toluene-d8 (S)	%		50.0	41.2	42.3	82	85	75-120			

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T025018

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Samples

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Analysis Method: EPA 8260B

#### METHOD BLANK: T025018-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
n,p-Xylene	ug/L	<2.0	2.0	
-Xylene	ug/L	<1.0	1.0	
(ylenes, total	ug/L	<3.0	3.0	
,2-Dichloroethane-d4 (S)	%	98	68-133	
oluene-d8 (S)	%	91	75-120	

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#### LABORATORY CONTROL SAMPLE: T025018-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	27.5	138	80-120	112
Toluene	ug/L	20.0	25.4	127	80-120	812
1,2-Dichloroethane-d4 (S)	%	40.0	38.9	97	68-133	
Toluene-d8 (S)	%	50.2	46.2	92	75-120	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024710 Analysis Description: Sulfate

QC Batch Method: IC Prep W Analysis Method: EPA 300.0 Rev. 2.1

#### METHOD BLANK: T024710-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Nitrate as N	mg/L	<0.075	0.075	
Sulfate as SO4	mg/L	<1.0	1.0	

# LABORATORY CONTROL SAMPLE: T024710-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Nitrate as N	mg/L	0.500	0.477	95	90-110	
Sulfate as SO4	mg/L	2.50	2.35	94	90-110	

#### Original: T11H198-01 MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024710-MSD1

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Nitrate as N	mg/L	1.17	6.00	6.75	6.78	93	94	80-120	0.5	20	
Sulfate as SO4	mg/L	16.2	50.0	65.5	70.1	99	108	80-120	9	20	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024742 Analysis Description: Sulfate QC Batch Method: IC Prep W Analysis Method: EPA 300.0 Rev. 2.1

#### METHOD BLANK: T024742-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Nitrate as N	mg/L	<0.075	0.075	
Sulfate as SO4	ma/L	<1.0	1.0	

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#### LABORATORY CONTROL SAMPLE: T024742-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Nitrate as N	mg/L	0.500	0.485	97	90-110	
Sulfate as SO4	mg/L	2.50	2.33	93	90-110	

#### MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024742-MSD1

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Nitrate as N	mg/L	0	6.00	5.81	5.90	97	98	80-120	1	20	
Sulfate as SO4	mg/L	1.42	30.0	29.2	30.0	92	95	80-120	3	20	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024782 QC Batch Method: IC Prep W Analysis Description: Sulfate

Analysis Method: EPA 300.0 Rev. 2.1

#### METHOD BLANK: T024782-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Nitrate as N	mg/L	<0.075	0.075	
Sulfate as SO4	mg/L	<1.0	1.0	

### LABORATORY CONTROL SAMPLE: T024782-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Nitrate as N	mg/L	0.500	0.480	96	90-110	
Sulfate as SO4	mg/L	2.50	2.32	93	90-110	

#### Original: T11H198-44 MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024782-MSD1

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Nitrate as N	mg/L	0	6.00	5.53	5.59	92	93	80-120	1	20	
Sulfate as SO4	mg/L	0	30.0	33.6	32.8	112	109	80-120	2	20	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024768 Analysis Description: Nitrogen, Ammonia QC Batch Method: EPA 350.1 Rev. 2.0 Analysis Method: EPA 350.1 Rev. 2.0

#### METHOD BLANK: T024768-BLK1

		Blank	Reporting	
Parameter	Units	Result	Limit	Notes



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METHOD BLANK:	T024768-BLK1
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Parameter	Units	Blank Result	Reporting Limit	Notes
Ammonia as N	mg/L	<0.010	0.010	

#### LABORATORY CONTROL SAMPLE: T024768-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Ammonia as N	ma/L	1.00	1.00	100	90-110	

Original: T11H198-21 MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024768-MSD1

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Ammonia as N	ma/l	0.402	1.00	1 38	1 34	98	94	90-110	4	7.9	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024769 Analysis Description: Nitrogen, Ammonia QC Batch Method: EPA 350.1 Rev. 2.0 Analysis Method: EPA 350.1 Rev. 2.0

## METHOD BLANK: T024769-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Ammonia as N	ma/l	<0.010	0.010	

## LABORATORY CONTROL SAMPLE: T024769-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Ammonia as N	mg/L	1.00	1.00	100	90-110	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024915 Analysis Description: Nitrogen, Ammonia QC Batch Method: EPA 350.1 Rev. 2.0 Analysis Method: EPA 350.1 Rev. 2.0

### METHOD BLANK: T024915-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Ammonia as N	mg/L	<0.010	0.010	

# LABORATORY CONTROL SAMPLE: T024915-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Ammonia as N	mg/L	1.00	1.00	100	90-110	

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Original: T11H198-37 MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T024915-MSD1 Spike MS MSD MSD Мах Original MS % Rec **RPD** Notes Units Parameter Result Conc Result Result % Rec **RPD** % Re Limit Ammonia as N mg/L 0.156 1.00 0.976 0.963 82 81 90-110 2 7.9 205 Trace Project ID: T11H198 Client Project ID: LEC / 004048.0000.0000 QC Batch: T024707 Analysis Description: Total Dissolved Solids QC Batch Method: SM 2540 C-97 Analysis Method: SM 2540 C-97 METHOD BLANK: T024707-BLK1 Blank Reporting Parameter Units Result Notes Limit **Total Dissolved Solids** mg/L <10 10 **SAMPLE DUPLICATE: T024707-DUP1** Original: T11H198-01 DUP Original Max Parameter Units Result **RPD** RPD Notes Result **Total Dissolved Solids** 397 389 2 20 mg/L Trace Project ID: T11H198 Client Project ID: LEC / 004048.0000.0000 QC Batch: T024777 Analysis Description: Total Dissolved Solids QC Batch Method: SM 2540 C-97 Analysis Method: SM 2540 C-97 METHOD BLANK: T024777-BLK1 Blank Reporting Parameter Units Result Notes Limit **Total Dissolved Solids** mg/L <10 10 **SAMPLE DUPLICATE: T024777-DUP1** Original: T11H198-21 DUP Original Max Parameter Units **RPD** Notes Result Result **RPD Total Dissolved Solids** mg/L 459 444 3 20 Trace Project ID: T11H198 Client Project ID: LEC / 004048.0000.0000 QC Batch: T024820 Analysis Description: Total Dissolved Solids QC Batch Method: SM 2540 C-97 Analysis Method: SM 2540 C-97 METHOD BLANK: T024820-BLK1 Blank Reporting Parameter Units Result Notes Limit **Total Dissolved Solids** mg/L <10 10

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SAMPLE DUDI ICATE: T024820-DUD1

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Original: T11H198-40

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SAMPLE DOFLIGATE. 102402	ו יוטטריט	Original. TTIII	100 40			
Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Dissolved Solids	mg/L	564	568	0.7	20	
			Trace Project ID: T11H198			

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024729 Analysis Description: Total Suspended Solids

QC Batch Method: SM 2540 D-97 Analysis Method: SM 2540 D-97

#### METHOD BLANK: T024729-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<10	10	

#### LABORATORY CONTROL SAMPLE: T024729-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	ma/l	50.0	52 0	104	85-115	

#### Original: T11H198-01 **SAMPLE DUPLICATE: T024729-DUP1**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Suspended Solids	mg/L	3.00	3.00	0	20	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024776 Analysis Description: Total Suspended Solids

QC Batch Method: SM 2540 D-97 Analysis Method: SM 2540 D-97

# METHOD BLANK: T024776-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<10	10	

# LABORATORY CONTROL SAMPLE: T024776-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	50.0	51.0	102	85-115	

#### SAMPLE DUPLICATE: T024776-DUP1 Original: T11H198-21

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Suspended Solids	mg/L	32.0	35.0	9	20	

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Report ID: T11H198 FINAL 08 31 11 1542 Page 96 of 107



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Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024819 Analysis Description: Total Suspended Solids QC Batch Method: SM 2540 D-97 Analysis Method: SM 2540 D-97

#### METHOD BLANK: T024819-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<10	10	

#### LABORATORY CONTROL SAMPLE: T024819-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	50.0	49.0	98	85-115	

#### **SAMPLE DUPLICATE: T024819-DUP1**

Origina		

Parameter	Units	Original Result	DUP Result	Max RPD RPD Notes
Total Suspended Solids	mg/L	3.00	3.00	0 20

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024702 Analysis Description: Heterotrophic Plate Count

QC Batch Method: SM9215B Analysis Method: SM9215B

## METHOD BLANK: T024702-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Heterotrophic Plate Count	CFU/ml	<1.0	1.0	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024747 Analysis Description: Heterotrophic Plate Count QC Batch Method: SM9215B Analysis Method: SM9215B

#### METHOD BLANK: T024747-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Heterotrophic Plate Count	CFU/ml	<1.0	1.0	

Trace Project ID: T11H198

Client Project ID: LEC / 004048.0000.0000

QC Batch: T024781 Analysis Description: Heterotrophic Plate Count

QC Batch Method: SM9215B Analysis Method: SM9215B



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# METHOD BLANK: T024781-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Heterotrophic Plate Count	CFU/ml	<1.0	1.0	



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In executing this Chain of Custody, Please Sign Request for Analytical Services Bill To: Report Results To:  $\bigcirc$ 0 #ten TRACE NO. City, State, Zip Code Billing Address (if different) Project Name & #: Cell #: Phone: Email Address: Mailing Address: Contact Person: Scorr Client Name: State, Zip Code: 6 -200 75 616 **D**th 5h5 5tb FILEASED BY TRE 5 Paulukiewicz Ptrcsolutions, com 2025 E. 186 3604 1634 1433 1595 1149 450 \<u>S</u>9 TAKEN 064048.0000.0000 2 METALS FIELD FILTERED Rapios MI BEETLINE Ave. , the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/cocterms.php 18-01 MW-19-16 12-19-18 41-31-MW 10-12g MW-25/R 気じっぬ 8-61-MW faxtoll-free MW-19-12 RECEIVED BY 231.773.5998 800.733.5998 92537 CLIENT SAMPLE ID 3 616 Sampled by: Sp 279 20% Muskegon, MI 49444-2673 Trace Analytical Laboratories, Inc. 2241 Black Creek Road DATE CHAIN-OF-CUSTODY RECORD PO #: 109 10:5 /MA TIME D بح 3 E  $\overline{\mathcal{C}}$ ٤ ε Ę ε S E ā 0) 9 6 6 0 NUMBER OF CONTAINERS 9 item # a Ŵ 2 ς> Regulatory Requirements
MERA TMDL's

Drinking Water

NPDES

USACE

Special N -) Ø TRACE USE ONLY 4 37.9 G3 N ij S Ni **€**3 1-3 17 Logged By/ Soil Volatiles Preserved: Received on ice: SETTE RELEASED BY N N 0 c) 'n ч 10 E. Turnaround Requirements
Standard
3-4 Day (RUSH)\* 3 Requires prior approval ANALYSIS REQUESTED MeOH 8 \_ RECEIVED BY Low Level Preservative Checked By × × (A W = Water
SE = Sediment
OI = Oil
SO = Solid Waste Lab S = Soil BURDIEN Matrix\_Ke Sampling REMARKS Time: \$ A≔Air SL = Sludge D = Drinking Water LW = Liquid Waste 8 8 TIME ¥. Possible Health Hazard



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OI = Oil
SO = Solid Waste S = Soil W = Water Matrix Key Sampling Time: TOTAL をする REMARKS TRACE ID NO. Yes SL = Sludge LW = Liquid  $\mathcal{Z}$ D = Drinking Water 8 TIME N/A Waste Possible Health Hazard



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Muskegon, MI 49444-2673 www.trace-labs.com DATE んらん CHAIN-OF-CUSTODY RECORD PO #: 3 1088 10:35 2/9/ TIME 3 ج E  $\varepsilon$ MATRIX 20 ठ NUMBER OF CONTAINERS õ Ō # item Drinking Water NPDES USACE Special 2 Ø TRACE USE ONLY MERA TMDL's Regulatory Require 4 3 0 3 Soil Volatiles Preserved: Received on ice: Logged By: RELEASED BY N V 5 2 Turnaround Requirements
Standard
3-4 Day (RUSH)\*
24-48 Hour (RUSH)\*
\* Requires prior approval Ness J ANALYSIS REQUESTED MeOH  $\frac{8}{6}$ ETTE OF 4 N RECEIVED BY Low Level Preservative Checked: Checked By: N W = Water
SE = Sediment
OI = Oil
SO = Solid Waste Lab S = Soil Matrix Key Sampling Time: NS DATE REMARKS /MSD TRACE ID NO. Yes D = Drinking Water SL = Sludge WI = Wipes LW = Liquid Waste A = Air8 TIME N/A Possible Health Hazard



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Please Sign Request for Analytical Service  Request for Analyt							ices						Report Results To:												
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4	ω		<i>a</i> )	7	7	5	7	7	7)	6	2	4	STOT O					Special	NPDES	MERA 1	Bequiat		· T		<del>-  </del>
		RELEASED E	<i>(</i> 2)	2	2	2	7	2	2	2	72	2	OFFI		\				<u>.</u>	MERA TMDL's	ory Requirements		Soil Volatiles Preserved:	Received of ice:	Logged By
		ВҮ													\		ANAI	* Hequires prior app			Turnaround Requirer		served: MeOH	Yes No	Page
		REC			ľ							-					ANALYSIS	prior app	(RUSH)	NH/*	Require		H Low		
		EIVED													\		REQL	roval	. 🗖 🛚	ı Š	ments		/ Level	Prese	Chec
		ВҮ															REQUESTED	OI = Oil SO = Solid Waste	SE = Sediment	S = Soil	Matrix Kev	. !	Lab Sampl	Preservative Checked:	Checked By:
		DATE											REMARKS		\		}			W.			Sampling Time:	ed: Yes	8.61 HII.
		TIME											Possible		·	_		D = Drinking Water SL = Sludge	A = Air	WI = Wipes				No N/A	8



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Standard
3-4 Day (RUSH)\* Requires prior approval ANALYSIS REQUESTED -MeOH 8 RECEIVED BY Low Level Preservative Checked: Checked By Lab W = Water
SE = Sediment
OI = Oil
SO = Solid Waste S = Soil Matrix Ke Sampling ξ G 16TAL DATE REMARKS Time: TRACE ID NO Yes A = AirSL = Sludge D = Drinking Water LW = Liquid 1 공 TIME ₩. Possible Health Hazard



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MERA TMDL's

Drinking Water

NPDES

USACE TRACE USE ONLY 4 3 Received on Logged By: Soil Volatiles Preserved: DEMO RELEASED BY CHY ice: 2003 Yes \* Requires prior approval ANALYSIS REQUESTED MeOH (19 공 130 X20 Low RECEIVED BY / Level Preservative Checked: Checked By Lab Matrix Key
S = Soll
W = Water
SE = Sediment
OI = Oil
SO = Solid Waste Sampling 861411. DATE REMARKS TRACE ID NO. Yes D = Drinking Water SL = Sludge WI = Wipes LW = Liquid Waste 8 M N. Possible Health Hazard



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# SAMPLE LOG IN CHECKLIST

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	· · · · · · · · · · · · · · · · · · ·				
.Date: \$\frac{17-1}{}	Client Name;	RC	# of Cool	ers: /	
Trace ID #: 7/1 #198	Project Name:	$\bigcirc$	Cooler	*#s:	
	Logged in by:	mul	Cooler	·#s:	
	Coole	r Receipt			
	Trace courier				
Cooler/samples delivered by:	Hand delivered	Name of de	livery person:		
	Commercial courier	UP!	S DHL FED	EX SUS Ma	ail
Did cooler come with a bill of lading?	No.	7	Not Applicable		
	Yes	Way Bill o	or Tracking #:		
COC Seals present and intact on cooler?	No AD	Not Applicable			
	Yes 🔀				
Custody seals signed by Client?	No	Client custody seal #	(if applicable):		
	Yes				
	Coolant and	l Temperature			
Type of Coolant Use	ed	Cooler Temp		Factor の 人	°C
	Yes No	Date: 5		52	
Slurry w/ crushed, cubed, or chip ice?			erature Blank: 5.	7 °C	
Multiple bags of ice around samples?		Range	of 3 samples: 4/	· > .c	
Ice Packs/ Blue Ice :			Melt Water:	°C	
No Coolant Present:		Ice still present	upon receipt: Yes	No	
	Ge	neral			
				Yes No	NA
	OC taped to inside of o				
All bottles arrived unbroke	<del>-</del>	-4:- h0			
Each sample	point is in a sealed pla Labels filled out co				
All bottle labels agree	e with Chain of Custod				
	sample to run tests re				
	ked and samples at co			一样片	
Correct	preservative added to				
DRO/GRO samples received and approp	oriate check in form co	mpleted?			5
	Air bubbles absent fro		manustratification of the second seco		
	t properly and signed				
•	n by TRACE sample c	Palester at the Palester State Control of the Palester State Contr			
Was project manager	called and samples di	scussed?			
Contact:			Date:		
Notes:					
	<u></u>				
	/				
		*	**		
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	No. No. No. of the Contract of	P T AT THE TOTAL THE STATE OF			
				Pay 8 11/21/04	6
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# SAMPLE LOG IN CHECKLIST

Date: 8 · [9 ~ 1] Client Nar	me: TRC		# of Coolers:	5	
Trace ID#:TI/H 19% Project Nar	me: •	0	Cooler #s:		
Logged in	710	, (90)	Cooler #s:		
	Cooler Red	ceipt			
· Tra	ce courier		***************************************		
•	I delivered	Name of delivery person	on:		
Commerci	al courier	UPS D	HL FED EX	US Mail	
Did cooler come with a bill of lading?	No 🗍	Not	Applicable		
	Yes 🔽	Way Bill or Tracking	#:		
COC Seals present and intact on cooler? No Yes		Not Applicable			
Custody seals signed by Client? No Yes	Clien	t custody seal # (if applicab	le):		
	olant and Te	mperature			
Type of Coolant Used		Cooler Temperature	Correction Fact	tor 4012°C	<u> </u>
••	No	Date: 8 -19-11	Time:10:32		
Slurry w/ crushed, cubed, or chip ice?		Temperature Bla		*C	
Multiple bags of ice around samples?		Range of 3 sampl	es: <u> </u>	°C	
Ice Packs/ Blue Ice :		Melt Wat	ter:	°C	
No Coolant Present:		Ice still present upon rece	ipt: Yes	No	
	Genera	a/			
				Yes No	NA
COC taped to	o inside of cooler	· lid?	HL-Harrison Whitester continues by Artistantia Harrison Continues and Artistantia Continues and Artistantia Co		
All bottles arrived unbroken with labe	els in good condit	ion?			
Each sample point is in		·			
	filled out complet				
All bottle labels agree with Chai		***************************************			
·		ted?			
pH checked and sa					=
DRO/GRO samples received and appropriate chec		iles?			7
		)As?			#
COC filled out properly					==1
COC signed in by TRAC	-			方一门	
Was project manager called and				古一百	
Contact:		Da	ate:		
					-
Notes:					
			· · · · · · · · · · · · · · · · · · ·		

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# SAMPLE LOG IN CHECKLIST

Date: 8-18-1/	Client Name:	? <	# of Coolers:	4
Trace ID #: 7 11 # 198	Project Name:	The state of the s	Cooler #s:	, <u> </u>
	Logged in by:		Cooler #s:	
	Choler	Receipt		
	Trace courier			
Cooler/samples delivered by:	Hand delivered	Name of delivery person		
	Commercial courier	UPS D	HL FED EX	∠US Mail
Did cooler come with a bill of lading?	No [		Applicable	
	Yes	Way Bill or Tracking	#:	
COC Seals present and intact on cooler?	No 1944 Yes 1947	Not Applicable		
Custody seals signed by Client?	No Yes	Client custody seal # (if applicab	le):	
	Coolant and	Temperature	<del>/////////////////////////////////////</del>	
Type of Coolant Use		Cooler Temperature	Correction Factor	r <u>-0'3</u> °c
Slurry w/ crushed, cubed, or chip ice? Multiple bags of ice around samples? Ice Packs/ Blue Ice: No Coolant Present:	Yes No	Date S - / & / / Temperature Bla Range of 3 sampl Melt Wat	es: <u>4 - 6</u>	°C °C No
No Costain Tosoni.	Gov	neral	71.00	
All bottles arrived unbroke Each sample  All bottle labels agree  Sufficient pH check  Correct p  DRO/GRO samples received and approp	n with labels in good copoint is in a sealed plate.  Labels filled out conservation of Custody sample to run tests received and samples at conservative added to solution of the color of t	stic bag? npletely? npletely? n(COC)? quested? rrect pH? samples? mpleted? n VOAs? by client? ustodian? scussed?		
			<u> </u>	
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# Appendix C Project Schedule